State of Connecticut



TRAFFIC RECORDS STRATEGIC PLAN



July 1, 2020



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1.0 Introduction

Motor Vehicle Traffic Crashes continue to be a Major Cause of Death and Injury in the United States.

The Connecticut Department of Transportation has ielectronically received nearly 567,666 PR-1 reports since the inception of the MMUCC (Model Minimum Crash Criteria) compliant report form on January 1, 2015. As of May 31, 2020, out 567,666 crashes, there are have been 1,463 Fatality (K); 7,737 Suspected Serious Injury (A); 69,989 Suspected Minor Injury (B); 115,572 Possible Injury (C) and 1,180,554 No Apparent Injury (O).

Examples of factors that contribute to motor vehicle crashes, injuries and death include:

- Speeding
- Following too close
- Other aggressive driving
- Failing to yield right-of-way
- Impaired driving (alcohol, drugs, medication)
- Distracted driving cell phone use, texting, etc.
- Unrestrained occupants
- Disregarding traffic signs and signals
- Running red lights
- Other careless driving

1.1 CONNECTICUT TRAFFIC RECORDS COORDINATING COMMITTEE - VISION

The vision of the Connecticut Traffic Records Coordinating Committee (TRCC) is a comprehensive Traffic Records System that provides reliable Data critical to the development of policies, and programs that enhance the operation and safety of the Connecticut Highway Transportation (National, State, and Local Roads) System.

Connecticut's traffic records information comprised of *Crash, Driver, Vehicle, Roadway, Citation/Adjudication, and Injury Surveillance Data System*. These components, is made up of:



- All reportable traffic crashes
- Driver citations
- Criminal history and judicial outcome data
- Driver licenses and registered vehicles
- Commercial motor vehicles
- Emergency Medical Systems and vital statistics
- Trauma and inpatient hospital records
- Roadway geometrics and features
- Traffic volumes, traffic mix and freight
- Location information via Geographic Information Systems

1.2 TRAFFIC RECORDS COORDINATING COMMITTEE - A PROPONENT FOR INTEGRATED DATASETS

Connecticut's TRCC, with its multi-disciplinary membership, has been instrumental in promoting the creation and use of integrated datasets. Related areas of focus for the TRCC include the ongoing development of a traffic records inventory, including necessary data governance, access, and security policies for datasets that include several sources from multiple agencies. Connecticut's TRCC includes representative data collectors, managers, and users drawn from each of the core traffic records system components. Membership also includes users of integrated datasets formed when data from different component systems are linked.



2.0 Traffic Records Coordinating Committee Documentation

Traffic Records Coordinating Committee (TRCC): The TRCC has continued to track its progress and manage safety project development by posting documents on its TRCC website. The links on the following pages include other websites encompassing core safety data systems relating to:

- Department of Transportation
- Highway Safety Programs,
- Traffic Records Coordinating Committee
- Connecticut Crash Data Repository,
- Connecticut Transportation Safety Research Center
- Department of Motor Vehicles,
- Department of Public Health,
- Department of Emergency Services & Public Protection
- Connecticut Police Chief's Association
- Iudicial Branch
- Criminal Justice Information System

ConnDOT - http://www.ct.gov/dot (Department of Transportation)

Highway Safety Programs -

http://www.ct.gov/dot/cwp/view.asp?a=2094&q=432886

- Child Passenger Safety
- Click it or Ticket Enforcement Campaign
- Crash Data Collection Initiatives and Programs (PR-1 and PR-2)
- Distracted Driving Prevention
- DUI Enforcement Program
- Motorcycle Safety Connecticut Rider Education Program (CONREP)
- Police Traffic Services
- Safe Routes to School
- Traffic Records Coordinating Committee (TRCC)



Highway Safety Office

The Highway Safety Office is represented on its own <u>face book</u> page - <u>https://www.facebook.com/CThighwaysafety</u>

Traffic Records Coordinating Committee - Website

TRCC website located at - http://www.ct.gov/dot/cwp/view.asp?a=2094&q=435916

DMV - http://www.ct.gov/dmv (Department of Motor Vehicles)

- Online License Services
- Driver License Suspension Payments
- Check Driver License Status
- Commercial Driver Self Certification
- Vehicle Services

DPH - http://www.ct.gov/dph (Department of Public Health)

- Connecticut Health Database Compendium
- EMS Patient Care Report Database/Trauma Centers

http://www.ct.gov/dph/cwp/view.asp?a=3127&q=387370&dphNav_GID=1827&dphNav

Injury Prevention http://www.ct.gov/dph/cwp/view.asp?a=3137&q=400094

DESPP - http://www.ct.gov/despp (Department of Emergency Services & Public Protection)

Division of State Police

http://www.ct.gov/despp/cwp/view.asp?a=4201&q=494678&desppNAV_GID=2077&desppNav=|

CPCA - http://www.cpcanet.org/ (Connecticut Police Chiefs Association)



JUD - http://www.jud.ct.gov/ (Judicial Branch)

 Infraction Ticket Processing https://www.jud2.ct.gov/cibepay/

CJIS - www.ct.gov/cjis (Criminal Justice Information System)

Connecticut Information Sharing System (CISS)



2.1 TRCC CHARTER

Objective

To create an inter-agency traffic records committee composed of all agencies involved in highway safety for the purpose of providing direction on all matters related to the State of Connecticut Traffic Records System.

Mission

Promote the effective use of information technology in support of the highway safety goals and objectives of the State. The CT_TRCC will adopt a global view of the data required to make the business of highway safety work and develop information systems and business processes that promote the sharing of highway safety data among all agencies involved. We will support data improvements that eliminate duplication, improve uniformity, promote electronic data collection, and facilitate data access and use.

Goal

Ensure that accurate, complete, and timely traffic safety data is collected, analyzed, and made available for decision making among appropriate partners.

Memorandum of Understanding

- (I) Have authority to review any of the State's highway safety data and traffic records systems and any changes to such systems before the changes are implemented;
- (ii) Consider and coordinate the views of organizations in the State that are involved in the collection, administration, and use of highway safety data and traffic records systems, and represent those views to outside organizations;
- (iii) Review and evaluate new technologies to keep the highway safety data and traffic records system current; and
- (iv) Approve annually the membership of the TRCC, the TRCC coordinator, any change to the State's multi-year Strategic Plan required under paragraph (c) of this section, and performance measures to be used to demonstrate quantitative progress in the accuracy, completeness, timeliness, uniformity, accessibility or integration of a core highway safety database.



2.2 TRCC AUTHORITY

The Connecticut TRCC continues to operate under the authority of and by the appointment of the Administrators of the Connecticut Department of Transportation, Connecticut Department of Motor Vehicles, Connecticut Department of Public Health, and the Judicial Branch who represent the core safety data systems: Motor Vehicle Crash, Roadway, Driver License/History, Vehicle Registration, Injury Surveillance/EMS, and Citation/Adjudication.

Letters of delegation (see appendix A), from the following Administrators, designate individual(s) to attend, as their representatives and participate on the TRCC.

Crash Data and Roadway Data Systems:

Name: Joseph Giulietti Title: Commissioner

Agency: Department of Transportation

Driver License / History and Vehicle Registration Data Systems:

Name: Sibongile Magubane

Title: Commissioner

Agency: Department of Motor Vehicles

Injury Surveillance / EMS Data System:

Name: Deidre S. Gifford, MD, MPH

Title: Acting Commissioner

Agency: Department of Public Health

Citation / Adjudication Data System:

Name: Tais Ericson

Title: Executive Director of Operations

Agency: Superior Court

TRCC (Technical Level) – The Connecticut TRCC, supported by the Highway Safety Office, continues an active, full schedule. In its efforts to seek improvements in the State's traffic records system, as outlined in this Strategic Plan and reflected in both the 2012 and 2017 Traffic Records Assessments, the TRCC's emphasis has followed the original recommendations from the Section 408/405c process for



measures of improvements – *completeness, uniformity, timeliness, accuracy, integration,* and *accessibility* of the data by stakeholders.

2.3 CT RCC CERTIFICATION

The Connecticut Traffic Records Coordinating Committee continues to operate and function as the organization responsible for the planning and implementation of the state traffic safety data system improvements.

The CTRCC members voted and approved the Strategic Plan along with the projects selected for the FY 2021 funding under the "Section 405 (c) Program".

Joseph T. Cristalli, Jr.

Transportation Principal Safety Program Coordinator Connecticut Department of Transportation



2.4 MEMBERSHIP ROSTER

The Connecticut Traffic Records Coordinating Committee (CT-TRCC) members are listed in the following table.

Traffic Records		Name	Organization	Agency
System	Role			
Crash/Citation Roadway	Manager/User	Joseph T. Cristalli, Jr., Transportation Principal Safety Program Coordinator	Highway Safety Office Department of Transportation	ConnDOT
Crash/Citation Roadway	User	Kerry Ross, Transportation Supervising Planner	Highway Safety Office Department of Transportation	ConnDOT
Crash/Citation Roadway	User	Flavia Pereira, Traffic Records Coordinator Transportation Planner 2	Highway Safety Office Department of Transportation	ConnDOT
Crash/Citation Roadway	User	Juliet Little Transportation Planner 2	Highway Safety Office Department of Transportation	ConnDOT
Crash/Citation Roadway	User	Robert Klin LEL _ CTDOT Transportation Planner 2	Highway Safety Office Department of Transportation LEL - CTDOT	ConnDOT
Crash	Collector (FARS)/User	Harley Polverelli FARS Analyst	Crash Data & Analysis Section	ConnDOT



		Transportation Planner 2		
Crash	Collector (FARS)/User	Linda Ackerman FARS Analyst Trans. Planning Assist. 2	Crash Data & Analysis Section	ConnDOT
Crash	Processor	Scott Schleicher Trans. Planning Asst. 2	Crash Data & Analysis Section	ConnDOT
Crash	Processor	Maxine Trout Trans. Planning Asst. 2	Crash Data & Analysis Section	ConnDOT
Crash	Management	Robbin Cabelus Transportation Planning Director	Transportation Planning	ConnDOT
Roadway	Management	Mike Connors Assistant Transportation Planning Director	Transportation Planning	ConnDOT
Roadway	User	Al Iallonardo Transportation Supervising Planner	Transportation Planning	ConnDOT
Roadway	User	Greg Ciparelli Transportation Supervising Planner	Transportation Planning	ConnDOT
Crash/Roadway	User	James Spencer Transportation Supervising Planner	Transportation Planning	ConnDOT
Crash/Roadway	User	Jeff Hunter , Office of	GIS/Construction/Engineering	ConnDOT



		Construction		
		Transportation Engineer		
Crash/Roadway	User	Joe Ouellette	GIS/Construction/Engineering	ConnDOT
Crash, Rodaway	Ober	Traffic Engineering	Gio/ Construction/ Engineering	COIIIDCI
Crash/Roadway	User	Eamon Flannery	GIS/Construction/Engineering	ConnDOT
		Traffic Engineering	, , ,	
Crash/Roadway	Developer	Robert Muzzy	Office of Information Systems	ConnDOT
Driver/Vehicle	Management	George White	Motor Vehicle/Driver	DMV
Dirver/ verificie	Management	Division Chief	Licensing	DIVIV
		Donald Bridge Lt.,		
Driver/Vehicle	User	Commercial Vehicle	Commercial Vehicle	DMV
		Safety Division		
		Cindy Zuerblis		
Driver/Vehicle	User	Division Manager,	Driver Regulation	DMV
	USEI	Driver Regulation	Driver Regulation	DIVIV
		Division		
		Daniel Silbo		
Driver/Vehicle	Management	Division Manager	Vehicle Registration	DMV
		Registration Division		
		Darlene Labonte		
Driver/Vehicle	User	Driver Services	Help Desk	DMV
	USEI	CDL Help Desk, MV	Help Desk	DIVIV
		Related Programs		
Driver/Vehicle	Collector/User	Catherine Lam	Child Safety	DMV
Driver/Vehicle	Collector/User	Janice Floyd	Child Safety	DMV



Driver/Vehicle	Collector/User	Tanisha Markland	Child Safety	DMV
Driver	Management	Brian Clarke	Driver Services	DMV
Driver	Collector/User	Grace Hurd	Driver Services	DMV
Crash/Citation/ Adjudication	Collector/User	Mary Muzzulin, TFC State Police	State Police	DESPP
Crash/Citation/ Adjudication	Collector/User	Kevin Gridley, Sgt State Police	State Police	DESPP
Crash/Citation	Support	Gregory Zeoli CAD/RMS NexGen Support, LPR	State Police	DESPP
Crash/Citation/ Adjudication	Management	Mark Tezaris CJIS Program Manager CJIS Governing Board	Governing Board Criminal Justice Information System	CJIS
Crash/Citation/ Adjudication	Liaison	Hank Lindgren Sergeant, Ret. Public Safety Liaison, CJIS	Criminal Justice Information System	CJIS
Crash/Citation/ Adjudication	Liaison	Patrick Farrell Trainer and Public Safety Liaison	Criminal Justice Information System	CJIS
EMS/Injury Surveillance	Collector/User	Ann Kloter Epidemiologist Office of EMS	Office the EMS	DPH
EMS/Injury Surveillance	Management	Raffaella Coler Director Office of EMS	Office of EMS	DPH
EMS/Injury	User	Susan Yurasevecz, MS,	Epidemiologist	DPH



Surveillance		MPH Epidemiologist, DPH, IPSU		
EMS/Injury Surveillance	Support	John Baker IT Consultant	IT	DPH
Crash/Citation/ Adjudication	User	Brenda L. Hans Asst. State's Attorney	Traffic Safety Prosecutor	State Attorney
Crash/Citation/ Adjudication	User	Richard Colangelo, Jr. State's Attorney	Prosecutor	State Attorney
Crash/EMS/Injury Surveillance	User	Injury Prevention	Hospital Research Outreach & Research	Yale New Haven Hospital
Crash/EMS/Injury Surveillance	User	Calvin Norway, Adult Trauma, Systems Coordinator	Hospital Research Medical Information	Yale New Haven Hospital
Citation/Adjudication	Management	Stacey Manware, Deputy Director	Superior Court Operations	Judicial Branch
Citation/Adjudication	Support	Antonio Pinho,	Judicial Information Systems	Judicial Branch
Crash/Citation	Management	Andrew Cota, Lt., LE Coordinator	Ansonia PD	Local Law Enforcement
Crash/Citation	Collector/User	Chris Perry, Sgt.	Newington PD	Local Law Enforcement
Crash/Citation/ Adjudication	Collector/User	Pending	Wallingford PD	Local Law Enforcement



Crash/Citation/	C 11 / /II	Pending	D (1 DD)	Local Law
Adjudication	Collector/User		Branford PD	Enforcement
Crash/Citation/	Collector/User	Ray Dunbar, Capt.	Branford PD	Local Law
Adjudication	Conector/ Oser		Diamora 1 D	Enforcement
Crash/Citation/	Collector/User	Rob Daniello, Lt.	Hamden PD	Local Law
Adjudication	Collector/ Oser		Trantdell 1 D	Enforcement
Crash/Citation/	Collector/User	Mario DiNatale	Hamden PD	Local Law
Adjudication	Collector/ Oser		Trantdell 1 D	Enforcement
Crash/Citation/	Collector/User	Mike Krzynowek	Enfield PD	Local Law
Adjudication	Collector/ Oser		Efficient 1 D	Enforcement
Crash/Citation/	Collector/User	Mark Squires	Enfield PD	Local Law
Adjudication	Collector/ Oser		Efficient 1 B	Enforcement
Crash/Citation/	Collector/User	Matthew Meier	Enfield PD	Local Law
Adjudication	Collector/ Oser		Efficient 1 B	Enforcement
Crash/Citation/	Collector/User	Brian Schechter	Cheshire PD	Local Law
Adjudication	Collector/ Oser		Chestine 1 D	Enforcement
Crash/Citation/	Collector/User	Brian Pichnarcik, Dept	Cheshire PD	Local Law
Adjudication	Collector/ Oser	Chief	Chestine 1 D	Enforcement
Crash/Citation/	Collector/User	Matt Damore	Plainville PD	Local Law
Adjudication	Collector/ Oser		Tiantvine LD	Enforcement
Crash/Citation/	Collector/User	Kevin Gilleran	Bridgeport PD	Local Law
Adjudication	Confector/ Oser		bridgeport i D	Enforcement
Crash/Citation/	Collector/User	Paul Cari	Bridgeport PD	Local Law
Adjudication	Confector/ Oser		bridgeport i D	Enforcement
Crash/Citation/	Collector/User	Ray LaPlante, Sgt.	Orange PD	Local Law



Adjudication				Enforcement
Crash/Citation/	Collector/User	Matthew Donadio Sgt.	Brookfield PD	Local Law
Adjudication	Collector/ Oser		DIOOKHEIU F D	Enforcement
Crash/Citation/	Collector/User	James Dzamko, Sgt	New Milford PD	Local Law
Adjudication	Conector/ Oser		New Minora I D	Enforcement
Crash/Citation/	Collector/User	Anthony Diaz, Sgt.	Hamden PD	Local Law
Adjudication	Concetory Oser		Transacti i D	Enforcement
Crash/Citation/		Andre' Rosedale,		Local Law
Adjudication	Collector/User	Officer First Class	Norwich PD	Enforcement
Crash/Citation/	Collector/User	Wayne Burroughs, Officer	Norwich PD	Local Law
Adjudication	Collector, Coef		1,01,1,22,1,2	Enforcement
Crash/Citation/	Collector/User	Thomas Lazzaro, Sgt.	Norwich PD	Local Law
Adjudication	conector, eser		T (OT WIEHT 12)	Enforcement
Crash/Citation/	Collector/User	Dexter Herron, Sgt.	Groton Town PD	Local Law
Adjudication	Concetory Oser		Grotton Town 12	Enforcement
Crash/Citation/	Collector/User	Stephen Breshano, Sgt.	Manchester PD	Local Law
Adjudication	Concetory Oser		With the ster 1 D	Enforcement
Crash/Citation/	Collector/User	TJ Moore, Sgt.	Darien PD	Local Law
Adjudication	Conector/ Oser		Darienti	Enforcement
Crash/Citation/	Collector/User	Pending	Wethersfield PD	Local Law
Adjudication	Conector/ Oser		Wethersheid i D	Enforcement
Crash/Citation/	Collector/User	Matt Lariviere, Sgt.	West Hartford PD	Local Law
Adjudication	Collector/ User		vvest Hartiold I D	Enforcement
Crash/Citation/	Collector/User	Off. Chick Bistany	Windsor Locks PD	Local Law



Adjudication				Enforcement
Adjudication		The rest County II		
Crash/Citation/	Collector/User	Thomas Cossette, Lt.	Meriden PD	Local Law
Adjudication	2022001, 2001		1,10210011 2	Enforcement
Crash/Citation/	Collector/User	Jason Lee, Lt.	Hartford PD	Local Law
Adjudication	Collector/ User		Tiartioid i D	Enforcement
Crash/Citation/	C 11 / /II	Jeffrey Booth, Sgt.	Ct. (1 DD	Local Law
Adjudication	Collector/User		Stamford PD	Enforcement
		Chuck Grasso		UCONN
Crash/Citation	Support/Trainer	Field Coordinator for	UCONN	Transportation
,	,	MMUCC-PR1		Institute
		Brandon O'Brien		UCONN
Crash/Citation	Support/Trainer	Field Coordinator for	UCONN	Transportation
,	,	MMUCC-PR1		Institute
Crash/Citation		Mark Nielsen, Naugatuck		Regional
Roadway	Management	Valley, Assistant Director	NVCOG	Planning
				Organizations
Crash/Citation		Christian Meyer,		Regional
Roadway	User	Transportation Planner	NVCOG	Planning
				Organizations
Crash/Citation		Cheryl Assis		Regional
Roadway	User	Capitol Region Council	CRCOG	Planning
		of Governments		Organizations
Crash/Citation		Pramod Pandey		Regional
Roadway	User	Senior GIS Coordinator	CRCOG	Planning
				Organizations



Crash/Roadway		Terri Thompson		Regional
	User	Traffic Incident	CRCOG	Planning
		Management		Organizations
		Ben Muller		Regional
Crash/Roadway	User	Transportation Planner	NVCOG	Planning
				Organizations
		Devon Lechtenberg		Regional
Crash/Roadway	User	Transportation Planner	CRCOG	Planning
				Organizations
Crash/Citation		Katie Raboin		
Roadway	User	Research Associate	Research	Preusser Group
C 1. /C: (Managana	No.: 1 Chaudhaur	Research	D
Crash/Citation	Management	Neil Chaudhary President	Research	Preusser Group
Roadway		Ravindra Sharma		
Crash/Citation Roadway	User	Ravinura Sharina	Research	Preusser Group
Roadway		John Ivan		UCONN
Crash/Roadway	Management	Professor & Associate	UCONN	Transportation
Crashi, Roadway	Management	Dept. Head	OCOMIN	Institute
		Eric Jackson		UCONN
Crash/Roadway	Management	Assoc. Research Professor	UCONN	Transportation
Crasii, Roadway	ivianagement	1350c. Research Floressor	OCOIVIN	Institute
				UCONN
Crash/Roadway	User	Donna Shea	UCONN	Transportation
Clasily Rodaway		Domin Office		Transportation



				Institute
				UCONN
Crash/Roadway	User	Marisa Auguste	UCONN	Transportation
				Institute
Crash/Roadway		Mario Damiata		UCONN
	Management	RDIP Planning	UCONN	Transportation
		Coordinator		Institute
Crash/Citation	User	Gerard O'Sullivan	Connecticut Insurance Dept.	Insurance
Crash/EMS		Carol P. Meredith	Department of Mental	
, , , , ,	User	Director of Prevention	Health/Addiction Services	Mental Health
Crash/Citation		Alec Slatky Manager of Public &		
Crasily Citation		Government	Affairs for AAA NE	Insurance
Crash/Citation	User	Amy Parmenter	AAA	Insurance
Roadway	Advisor	Daniel Suarez	Federal Agency	FHWA
Commercial Motor		Christopher Henry		
Vehicle Safety	Advisor	FMCSA, CT Division	Federal Agency	FMCSA
		Administrator		
Commercial Motor		David M. West		
Vehicle Safety	Advisor	FMCSA State Programs	Federal Agency	FMCSA
		Specialist		
	Advisor	Shannon Purdy	Federal Agency	NHTSA



Highway Safety		Deputy Regional			
		Administrator, NHTSA			
		Region 2			
		Allison Beas			
Highway Safety	Advisor	Traffic Records	Federal Agency	NHTSA	
	Auvisoi	Coordinator, NHTSA	rederal Agency	INITISA	
		Region 2			
		Shannon Trice			
Highway Safety	Highway Safety Advisor		Federal Agency	NHTSA	
		Program Manager for CT			
Crash/Citation	Consultant	Jon Travisano	Local Agency Support	NEXGEN	
Crash/Citation	Consultant	Ken Dudas	Local Agency Support	Telepartner	
Crash/Citation	Consultant	Bridget Vuolo	Local Agency Support	TriTech	



3.0 Traffic Records System Strategic Plan

3.1 Traffic Records System Deficiencies

A Traffic Records Assessment was conducted for the State between January and April 2017. This assessment was conducted using the National Highway Transportation Safety Administration (NHTSA), State Traffic Records Assessment Program (STRAP). STRAP is the web-based application for the assessment. The NHTSA assigned assessment facilitator works with the State assessment coordinator to prepare for the assessment and establish a schedule.

Following the kickoff meeting that explained the assessment process, a system token was provided that enabled the State Traffic Records Coordinator to log onto STRAP to enter answers to questions received or designate responsible stakeholders. Three Hundred and Ninety-one (391) assessment questions were answered that addressed all territory traffic records data systems.

A group of qualified selected independent assessors by NHTSA rate the responses and determined how closely State's capabilities match those of the ideal system outlined in the Traffic Records Advisory. The following is the Executive Summary of the Assessment results:

Out of 391 assessment question, Connecticut met the Advisory ideal for 147 questions (37.6%), partially met the Advisory ideal for 66 questions (16.9%) and did not meet the advisory ideal for 178 questions (45.5%).

As Figure 1 illustrates, within each assessment module, Connecticut met the criteria outlined in the Traffic Records Program Assessment Advisory 52.6% of the time for Traffic Records Coordinating Committee Management, 81.3% of the time for Strategic Planning, 77.3% of the time for Crash, 35.9% of the time for Vehicle, 40% of the time for Driver, 57.9% of the time for Roadway, 29.6% of the time for Citation/Adjudication, 11.4% of the time for EMS/Injury Surveillance, and 46.2% of the time for Data Use and Integration.



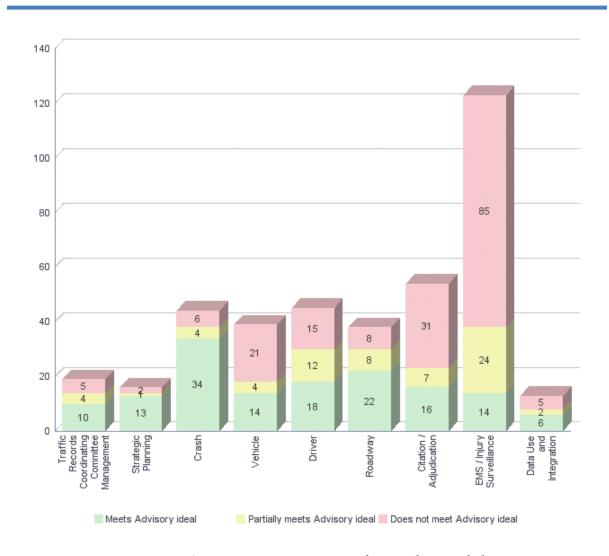


Figure 1. Assessment Rating Distribution by Module

The Connecticut Traffic Records Coordinating Committee (TRCC) has reviewed the recommendations provided by the National Highway Traffic Safety Administration Technical Assessment Team.

The TRCC develop and voted to adopt the following solutions as part of the ongoing updates to Traffic Records System Strategic Plan to address the Technical Assessment Team recommendations.



3.2 STRATEGIC PLANNING AND TRAFFIC RECORDS SYSTEM RECOMMENDATIONS

3.2.1 Crash Recommendations

• Improve the interfaces with the Crash data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

3.2.2 VEHICLE RECOMMENDATIONS

- Improve the data dictionary for the Vehicle data system to reflect best practices identified in the Traffic Records Program Assessment Advisory
- Improve the procedures/process flows for the Vehicle data system to reflect best practices identified in the Traffic Records Program Assessment Advisory
- Improve the data quality control program for the vehicle data system to reflect best practices identified in the Traffic Records Program Advisory

3.2.3 Driver Recommendations

- Improve the data dictionary for the Driver data system that reflects best practices identified in the Traffic Records Program Assessment Advisory.
- Improve the data quality control program for the Driver data system that reflects best practices identified in the Traffic Records Program Assessment Advisory.

3.2.4 ROADWAY RECOMMENDATIONS

- Improve the applicable guidelines for the Roadway data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.
- Improve the data quality control program for the Roadway data system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

3.2.5 CITATION/ADJUDICATION RECOMMENDATIONS

 Improve the data dictionary for the Citation and Adjudication systems that reflects best practices identified in the Traffic Records Program Assessment Advisory.



- Improve the procedures/process flows for the Citation and Adjudication system to reflect best practices identified in the Traffic Records Program Assessment Advisory
- Improve the interface with the Citation and Adjudication systems to reflect best practices identified in the Traffic Records Program Assessment Advisory

3.2.6 EMS/INJURY SURVEILLANCE RECOMMENDATIONS

- Improve the interface with the Injury Surveillance systems to reflect best practices identified in the Traffic Records Program Assessment Advisory
- Improve the data quality control program for the Injury Surveillance system to reflect best practices identified in the Traffic Records Program Assessment Advisory.

3.2.7 NHTSA GO-TEAM REPORT

Summarized during the February 2017 meeting of the TRCC, the Connecticut Trauma Registry and EMS, Go-Team Report described valuable discussions with DPH and other Trauma and Traffic Safety Partners beginning with the Go-Team visit in October 2016. A subset of recommendations to consider:

- Scheduling regular conversations via phone, webinar, or in-person with partner agencies and vendors,
- Using NHTSA's Performance Measure Guide, www-nrd.nhtsa.dot.gov/Pubs/811441.pdf, for the development of performance measures, establish measures for the six data quality attributes,
- Establish templates and set deadlines for system documentation for, *User manuals, *Data dictionaries, *Edit checks and validation rules,
- Track communication among partners using the following methods: *Set timelines for returning email and telephone correspondence, *Set timelines for dissemination of system changes, *Establish a formal feedback loop for questions or issues



- Document and disseminate data-sharing parameters (data confidentiality, DPH Institutional Review Board, etc.),
- Track progress of performance measures and update TRCC regularly at meetings,
- Establish a training schedule, either in-person or online, to provide an avenue for the developers to review modifications and updates and to allow an opportunity for users to have question and answer sessions,
- Re-establish annual reports of trauma registry data to help identify trends and to identify potential problems in the data collection and reporting processes,
- Coordinate activities with the State TRCC and any data governance processes that are established for the injury surveillance and traffic records data sources, and
- Develop a report writer to assist EMS agencies and the State with quality metric reporting and aggregate data analyses of the pre-hospital data. Adding analytical resources will enhance the quality of the EMS system as a component of the State Traffic Records Injury Surveillance System.



3.3 Project Selection Methodology

The TRCC reviewed each system's deficiencies and developed goals, projects, and tasks to address the deficiencies as they relate to the goal of the state's traffic records system.

The TRCC voted and selected projects for the FY 2020-year funding. The Lead Agency for the projects selected submitted project descriptions for the FY 2020 Section 405 (c) Grant Application.

• Degree of Difficulty

How difficult is the project in terms of:

- Infrastructure
- Inter-Agency
- Policy
- 5 Not Difficult
- 4 Somewhat Difficult
- 3 Difficult
- 2 Very Difficult
- 1 Unattainable

Cost

How expensive will the Project be (include life cycle cost in your estimate):

- 5 Less than \$200K
- 4 More than \$200K, but less than \$500K
- 3 More than \$500K
- 2 More than \$500K, but less than \$1.0M
- 1 Over \$1.0M

Impact

How significant will the project impact the Traffic Safety Information System if successful:

- 5 Very Significant Impact
- 4 Significant Impact
- 3 Somewhat Significant

Impact

- 2 No Significant Impact
- 1 No Impact
- Measurable Progress

Will the Project show measurable progress during the 1st year of funding:

- 5 Significant Measurable Progress
- 4 Measurable Progress
- 3 Somewhat Measurable Progress
- 2 No Measurable Progress
- 1 No Progress



3.3.1 SELECTED PROJECT TABLE

The table below provides a summary for each of the projects that are being proposed for funding under the **FY 2021** "Section 405 (c) Grant". A detailed description of each project is provided in this section of the application.

Project Title	Project Description	Funding 2021
		Grant
Electronic Citation Processing System – Version 2	Integration with Online Disposition	\$180,000.00
Online Disposition System – Version 2	Integration with Crash System	\$200,000.00
Electronic Citation	Technology/Software Support for Local Law Enforcement Agencies	402-TR
FY2021 BUDGET		\$380,000.00



4.0 System Measures

4.1 CRASH SYSTEM COMPONENT

In January 2015, the State began the transition to a completely updated electronic crash reporting system using the MMUCC Guideline, 4th Edition as the basis for its crash data collection. This project encompasses multiple initiatives aimed at serving a segment of the law enforcement community. The focus is to help local police departments acquire public safety equipment. Some departments don't have computers or mobile data terminals (MDTs) in their vehicles, hindering their abilities for selective enforcement. Better tools/resources, including technology as well as software support where warranted, would enable local police departments to better implement new E-Crash investigation and enforcement initiatives.

Equipment as well as software support will be provided to support local law enforcement agencies in implementing E-Crash MMUCC PR-1. Equipment/software support will be specifically awarded to those agencies requesting assistance for the purchase and installation of computers, printers, or other mobile technology, as well as software applications. Evaluating applications and making award decisions will be based on established criteria.

The need for planning and coordination among law enforcement agencies is critical to the success of this effort. This E-Crash support initiative will be interfaced with the ConnDOT/UConn Crash Data Repository (CDR). Electronic crash and citation reporting will reduce data input errors and improve the complete-ness of the collected data. It should also improve police officer efficiency by reducing the amount of time that officers spend collecting crash and citation data and decrease the time it takes this data to be received by the appropriate State agency.

4.1.1 SYSTEM UPDATE

Analysis of highway safety is probably the most data-intensive activity carried out by highway and transportation agencies. It requires more than just archiving police accident reports. To be effective, information recorded on the crash reports must be captured into a searchable database. Roadway inventory, traffic volumes and even



land use information are all critical for evaluating the safety of any road segment or intersection. These were added as part of phase 3 of the CTCDR. However, other safety analysis exercises require data such as driver history, motor vehicle registration information, and vehicle miles traveled (VMT).

Other institutional databases such as patient care reporting and treatment received on the scene and at the hospital are important to understanding the full impact of a crash. Due to the sensitive nature of these types of data, discussions need to take place early and often to identify the potential risks and benefits to such an integrated database. These types of discussions will be a key part of phase 3 of the CTCDR; so that a future version of the repository may include such linkages to allow for a complete crash analysis from time of impact to release from hospital for injury crashes.

Phase 1 and 2 of these projects established a repository structure which provides users online access to these repositories through a common integrated portal. As part of the Crash Data Improvement Program (CDIP) review performed at ConnDOT in October of 2011, the need for performance measures was identified. These measures would track elements such as timeliness, completeness and accuracy. These tools will be built into the next generation of the CTCDR.

Phase 1 and 2 of these projects provided users with access to the crash data. However, the data entered into the repository from ConnDOT is not timely. There is currently a 14-month backlog of paper PR-1 reports at the DOT. Phase 2 established an XML feed from DPS to get data into the repository in a timelier fashion. However, this feed only contains data from the state police. In an effort to get more data submitted electronically local police departments need the ability to submit data via an XML data feed. This will aid in eliminating the PR-1 paper backlog as well as providing users access to more timely data. The research team will pick 5 pilot towns at a minimum to aid in their submission of electronic PR-1 data. This would involve the research team assessing a local PDs current system and creating a custom application to generate an XML feed directly and securely to the crash data repository.

A recent initiative at the DOT is the transition to a 100% MMUCC compliant uniform police report. This initiative also includes an effort to move to 100% electronic reporting.



4.1.2 TRAFFIC RECORDS ASSESSMENT PLAN OF ACTION

Recommendation

• Improve the interfaces with the Crash data system that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The Crash System is designed to interface with all the Traffic Records Systems (Driver System, Vehicle System, Roadway System, Citation/Adjudication System and the EMS).

Connecticut's CTSRC is leading a large-scale traffic records data integration project, linked to the NGA initiative in #1, aimed at ultimately linking all the six core datasets of the State's traffic records system. Connecticut was one of three states participating in an NGA Data Integration Webinar on Nov 29, 2018 - promoting the State's data integration efforts led by the CTSRC.

The CT Crash Data Repository now has an approved MOU for linking to Citation and Adjudication as well as Driver Records.

Deficiency Analysis & Performance Goal Matrix

Performance Area: CT-CR-001 Timeliness - C-T-1

<u>Summary of Deficiency:</u> Time delay between crash events and when the data is available for use. The crash data location processing and validation are heavily dependent on manual operations.

<u>Measurement:</u> Reduce the number of days between crash event and when the data is available for use in the centralized repository.



	Benchmark	2018	2019	2020	2021	2022
Goal	8hrs	19 days	59 days	35 days	13 days	13 days
Actual	Unknown		59 days	35 days		

Activity This Period:

Crash Timeliness Improved from 59 days to 35 days=34 **days reduction** from Crash Occurrence to available in Central for analysis and reporting= 40.68% Improvement

Project: Electronic Crash Reporting System

Measurement: Average Days Between Crash Report Received and Completed

	Benchmark	2018	2019	2020	2021	2022
Goal	95 %	30 days	25 days	20 days	15 days	5 days
Actual			23 days	21 days		

Activity This Period:

Average number of days from when the crash received and processing completed reduced by two (2) days during this reporting period.

Performance Area: CT-CR-002 Accuracy - C-A-1

<u>Summary of Deficiency:</u> Submitted crash data is mostly accurate except for location and incorrectly completed data fields.

<u>Measurement:</u> % of Crash Records with no errors in Critical data elements (that passed all Validations).

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	93.57%	100%	100%	100%	100%
Actual	93.57%		97.13%	98.10%		





Activity This Period:

Crash Accuracy Improved from 97.13% to 98.10% =1.00%. About 1% of critical data elements missing from the Central Database for analysis.

Performance Area: CT-CR-003 Completeness - C-C-1

<u>Summary of Deficiency:</u> Incorrect/Incomplete or Missing critical Data Elements (Crash Location)

<u>Measurement</u>: % of crash records with no missing critical data elements (Crashes with accurate crash location using Geo Code data provided by the Crash Data Collection System Map Interface)

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	100%	100%	100%	100%	100%
Actual	95%					

Performance This Period: 100%

Previous Activity

Project: Electronic Crash Reporting System (Map Interface/Longitude & Latitude)



Performance Area: CT-CR-004 Consistency (Uniformity) C-U-1

Summary of Deficiency: None – 100% Compliant with MMUCC 4th Edition

<u>Measurement</u>: Number of MMUCC compliant data elements entered into the crash database or obtained via linkage to other databases

Project: Redesign of the Crash Form (MMUCC 4th Edition Compliant)

The goal in the upcoming fiscal year is to analyze the crash form and prepare for MMUCC 5th Edition update.

<u>Performance Area:</u> CT-CR-005 Integration – C-I-1

<u>Measurement</u>: % of appropriate records in the crash dataset that are linked to another system or file (e.g., integration between the crashes with violation linked to the citation file).

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	40%	45%	50%		
Actual	40%			50%		

Performance This Period:

None

Previous Activity:

Connecticut's TRCC, with its multi-disciplinary membership, has been instrumental in promoting the creation and use of integrated datasets. Related areas of focus for the TRCC include the ongoing development of a traffic records inventory, including necessary data governance, access, and security policies for datasets that include several sources from multiple agencies. Connecticut's TRCC includes representative data collectors, managers, and users drawn from each of the core traffic records



system components. Membership also includes users of integrated datasets formed when data from different component systems are linked.

TRCC website is located at - http://www.ct.gov/dot/cwp/view.asp?a=2094&q=435916

Data Users and Decision-Makers

Creation of linked datasets are an important start. In addition, data users and decision-makers should have access to the resources that support their needs, including skilled analytic personnel and user-friendly access tools. Ideally, these resources are specifically designed to meet a variety of needs, including legislative queries, problem identification, program and countermeasure development, management, and evaluation, as well as meeting all reporting requirements.

Crash Data Repository (CDR) website is located at - http://www.ctcrash.uconn.edu/

Project: - Electronic Citation System

<u>Integration</u> – ECitation fully integrated with the Crash System for analysis and reporting. Other ongoing integration initiatives including Crash with Roadway; Citation with Toxicology Lab and Judicial Criminal Records with Motor Vehicle.



<u>Performance Area:</u> CT-CR-006 Accessibility - C-X-1

<u>Summary of Deficiency:</u> Increase the number of authorized agencies capable of accessing the Crash File for analysis and reporting.

<u>Measurement</u>: Number of authorized agencies with access to crash data for analysis and reporting.

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	100%	100%			
Actual						

Performance This Method:

Previous Activity

Project:

Anticipated Improvement -



4.4.2 ROADWAY SYSTEM

Roadway information is used to group all of the data generally used by engineers to plan, design, construct, operate, and maintain the roadways. Roadway improvements, pavement improvements, and pedestrian or bicyclist access are measures that can be introduced as part of highway safety improvements program. Other engineering activities for improving highway safety might include design of crash barriers and other roadside devices intended to reduce crash severity and damage. Information required for these activities may include the following:

- Traffic information number of vehicles per hour, day, week, or annual average, number of axles, weight, and speed.
- Structures inventory and characteristics of bridges.
- Roadway Inventory number of centerline miles and number of lane miles from pavement type, or number of total miles within any jurisdiction.

ConnDOT has historically maintained its roadway related data in a non-geospatial LRS, built on an Oracle database platform, known as the Roadway Information System (RIS). Roadway attributes and characteristics were stored utilizing database tables that organized information based upon a route and mile point structure, with no geospatial representation; although certain fields were utilized to store single point geographic location information for certain operational and roadway identification needs.

The structure of that data was such that it was substantially similar to the MIRE FDE requirements regarding many of the elements. Additionally, ConnDOT has performed local road data collection activities for all 169 towns and 5 boroughs in the state, on approximately 17,000 miles of locally owned roads, for elements such as: roadway location, identification, asset location, mileage, and classification status, as well as traffic volume on a select set of local roads.

ConnDOT began an effort in 2012 to transition from RIS to a geospatially accurate LRS utilizing Bentley's EXOR program. This transition will eliminate many of the limitations in storing and attributing roadway data in the LRS that are associated with using a 15-year-old software application, along with enabling additional analysis capabilities that come with the LRS being geospatially accurate. Data maintenance in both systems, and migration from RIS to EXOR as the primary



database of record, has been an ongoing responsibility of ConnDOT's Roadway Inventory Office, who is tasked with maintenance of the road network and all road network related attribution.

The enhanced attribution capabilities of the new LRS (individual lane data, no character limits, layered asset location information/attribution), along with the need for additional and more accurate attribution of roadway data for safety analysis purposes (outlined in MIRE), have led ConnDOT's Roadway Inventory Section to adopt the MIRE data model as it applies to state, local, federal, and tribal roads.

In 2015, the Connecticut Transportation Safety Research Center (CTSRC) at the University of Connecticut (UCONN) entered into a Memorandum of Understanding (MOU) with ConnDOT's Traffic Engineering Safety Office to assess and develop tools to be used for advanced safety analysis of Connecticut's roadways. Included in that analysis are methods such as network screening, safety performance function (SPF) development, and countermeasure selection.

The availability of the resources necessary to compile a MIRE compliant data set that meets Federal requirements, along with the need for the CTSRC to access that data for safety analysis purposes, has led to a collaborative effort between ConnDOT and CTSRC to identify data gaps, populate missing data, and develop maintenance plans for continued updating and utilization of the MIRE FDE and other critical data elements.

ConnDOT has recently undergone both a Roadway Data Improvement (RDIP) Assessment (MIRE FDE Appendix A) and RDIP Workshop (MIRE FDE Appendix C) with regional and federal partners in order to identify data gaps and create a business plan for improving and integrating roadway data throughout the Department. The recommendations and summaries of those activities are included at the end of this plan as appendices. The workshop findings and business plan development recommendations (MIRE FDE Appendix B) are still a work in progress and are subject to change as discussions between ConnDOT and VHB continue on how to best tackle the relatively unique structure of Connecticut's data integration effort to date.



The following table outlines the MIRE FDE for road segments, their applicability to certain road types in Connecticut, the compliance status utilizing current system capabilities, and data maintenance responsibility



Table 1 – Roadway Segment MIRE FDE

Mire Object ID	Mire Description	Attribute Description	FDE on Paved FC Above Local	FDE on Paved Local FC	FDE on Unpaved	RIS Data And/Or LRS TIG Capabilities Meet MIRE FDE Standards on Applicable Roads	Maintenance Responsibility
4	Type of Governmental Ownership	State, County, City, Town, Park, Private, RR, Tribal, Fed	х	х	х	х	Roadway Inventory
8	Route Number	Signed numeric value for segment	x			x	Roadway Inventory
9	Route/Street Name	Alphanumeric route or street name where different	x			x	Roadway Inventory
10	Begin Point Segment Descriptor	Based on segment descr. Can be rte/mp or spatial	x	x	х	x	Network Segmentation - Roadway Inventory Safety Analysis Segmentation - CTSRC
11	End Point Segment Descriptor	Based on segment descr. Can be rte/mp or spatial	x	x	х	x	Network Segmentation - Roadway Inventory Safety Analysis Segmentation - CTSRC
12	Segment I dentifier	Derived from other elements; combo of Rte/Cnty/BgnMP/EndMP	х	х	х	x	Network Segmentation - Roadway Inventory Safety Analysis Segmentation - CTSRC
13	Segment Length	Length of the segment in Miles	x			x	Network Segmentation - Roadway Inventory Safety Analysis Segmentation - CTSRC
18	Direction of Inventory	Direction of inventory if divided roads are inventoried in each direction	х			x	Roadway Inventory
19	Functional Class	Functional class of segment; interstate, PAFE, PAO, MinA, MajCol, MinCol, Local	х	х	х	х	Roadway Inventory
20	Rural/Urban Designation	Rural or Urban (Pop >5,000)	х	х		х	Roadway Inventory
21	Federal Aid/Route Type	Non Fed-Aid, Fed-Aid non NHS, NHS, NHS Con to Airport, Port, Amtrak Station, Rail/Truck Term, City Bus Term, Ferry, Pipeline, Pub Trans Term	х			x	Roadway Inventory
22	Access Control	Degree of Access Control; Full, Partial, None	x			х	Roadway Inventory
23	Surface Type	Surface type of segment; Unpaved, Bithuminous, AC Ovly, CRCP, JPCP, JRCP	х	х		х	Roadway Inventory
31	Number of Through Lanes	Number of through lanes excludes aux lanes (CD, Weaving, Frontage, Parking, Turn, Acc/Dec, TCL)	х	х		х	Roadway Inventory
54	Median Type	Undivided, Flush Paved, Raised, Depressed, 2-Way L Turn, Railroad, Divided sep grades no wall or with wall, other	х				Different Element Attribute - Roadway Inventory
79	Annual Average Daily Traffic (AADT)	Annualized average 24 hour volume of vehicles at a given point, or over a section of roadway	х	х		х	Traffic Monitoring
80	AADT Year	Year of entered AADT	х			х	Traffic Monitoring
91	One/Two-Way Operations	Indication of how segment operates	х			х	Roadway Inventory

The following table outlines the MIRE FDE for road junctions and interchanges, their applicability to certain road types within Connecticut, the compliance status utilizing current system capabilities, and who will be responsible for maintaining the data element.



Table 2 – Roadway Junction/Interchange MIRE FDE

Mire Object			FDE on Paved FC	FDE on Paved	FDE on	RIS Data And/Or LRS TIG Capabilities Meet MIRE FDE Standards on	
ID	Mire Description	Attribute Description	Above Local	Local FC	Unpaved	Applicable Roads	Maintenance Responsibility
120	Unique Junction Identifier	A unique junction identifier - (e.g. node number, LRS of primary route, etc)	x				New Element - Roadway Inventory/CTSRC
122	Location Identifier for Road 1 Crossing Point	Location of the center of the junction of the first intersecting route (e.g. route and milepoint, or spatial coordinates)	х			х	Roadway Inventory
123	Location Identifier for Road 2 Crossing Point	Location of the center of the junction of the second intersecting route (e.g. route and milepoint, or spatial coordinates)	Х			х	Roadway Inventory
79	Annual Average Daily Traffic (AADT) (each intersecting road)	Annualized average 24 hour volume of vehicles at a given point, or over a section of roadway	х			Х	Traffic Monitoring
80	AADT Year (each intersecting road)	Year of entered AADT	Х			Х	Traffic Monitoring
126	Intersection/Junction Geometry	Type of geometric configuration that best describes the intersection/junction (T, Y, Cross, 5 or More Legs, Circular, Non-conventional, Midblock Ped)	х				New Element - Roadway Inventory/CTSRC
131	Intersection/Junction Traffic Control	Traffic control present at an intersection or junction (uncontrolled, 2 way stop, all way stop, yield, signalized w or w/o ped, railroad w/ L, G, SS, CB)	×				New Element - Roadway Inventory/CTSRC
139	Unique Approach Identifier	Any identifier that is unique for each approach at an intersection (e.g. sequential numbers, compass directions)	х				New Element - Roadway Inventory/CTSRC
178	Unique Interchange Identifier	A unique identifier for each interchange (e.g. node number, LRS of primary route, exit number, etc)	х				New Element - Roadway Inventory/CTSRC
182	Interchange Type	Type of ramp interchange - diamond, full clover, partial clover, trumpet, 3 leg, 4 leg, semi-directional, single entrance/exit, single point, other (double diamond, diverge d)	x				New Element - Roadway Inventory/CTSRC
187	Ramp Length	Length of ramp - from painted nose of gore to intersection curbline or painted nose of gore to painted nose of gore	х			х	Roadway Inventory
4	Type of Governmental Ownership	State, County, City, Town, Park, Private, RR, Tribal, Fed	х			х	Roadway Inventory
19	Functional Class	Functional class of segment; interstate, PAFE, PAO, MinA, MajCol, MinCol, Local	Х			х	Roadway Inventory
191	Ramp AADT	Average Annual Daily Traffic for all ramps	Х			Х	Traffic Monitoring
192	Year of Ramp AADT	Year of collection for AADT on Ramp	Х			Х	Traffic Monitoring
195	Roadway Type at Beginning of Ramp Terminal	Type of roadway intersecting with the beginning of the ramp (Freeway, Non-Freeway, Other Ramp, Frontage Rd, Other)	х			х	Roadway Inventory
197	Location Identifier for Roadway at Beginning of Ramp Terminal	Location on the intersecting roadway of the ramp begin point (e.g. route - milepoint)	х			х	Roadway Inventory
199	Roadway Type at Ending Ramp Terminal	Type of roadway intersecting with the end of the ramp (Freeway, Non-Freeway, Other Ramp, Frontage Rd, Other)	х			Х	Roadway Inventory
201	Location Identifier for Roadway at Ending Ramp Terminal	Location on the intersecting roadway of the ramp end point(e.g. route - milepoint)	Х			х	Roadway Inventory

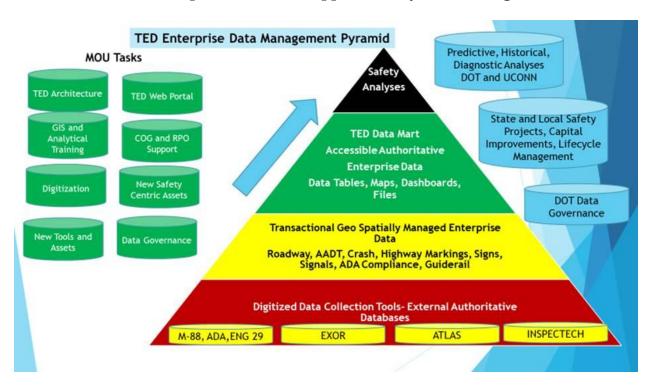
In the past year, the Connecticut Department of Transportation (CTDOT) embarked on an initiative to build an enterprise data warehouse designed to serve as a central repository of safety and asset data for the CTDOT. The enterprise data warehouse or Transportation Enterprise Database (TED) follows up on specific recommendations made in an FHWA sponsored December, 2016 RDIP Assessment to "consolidate and manage enterprise data integration efforts to fully integrate



Department data resources and mapping capabilities using a geospatial LRS to map roadway features and crashes".

From its origin, TED has always been focused on developing capabilities to advance safety project decision making. The TED initiative has also advanced capabilities to collect and manage MIRE related data including roadway junction information that covers intersection features, traffic control devices and pedestrian and bicycle facilities.

How the TED Enterprise Database Supports Safety Data Management



As a result of its broad safety focus that goes well beyond basic MIRE FDE elements, TED has been able focus on the following objectives in its first year of implementation:

 Serve as a unified database capable of hosting non-spatial data and geospatial data from a wide range of sources within the Agency with the objective to guide



management policy, program and project investment decisions with an emphasis on safety and asset management

- Function as an enterprise transportation geographic information system (GIS) that would consist of an architecture that integrates geospatial data, suites of tools and applications, shared through a Data Mart to support daily CTDOT operations. This portal would serve as a single destination for CTDOT and their partners to consume, visualize, analyze, and publish their enterprise data and reports.
- The Data Mart will have a direct connection to UCONN's crash data repository, feed data to Traffic Engineering's safety analysis tool, serve the asset management and Capital Project safety related activities, and be accessible to local governments to update local road networks and to support safety analyses
- Be accessible through a centralized GIS platform, based primarily on ESRI ArcGIS, comprised of easy-to-use applications, fed by enterprise-level databases and high-performance computing

Significant progress has been made in the past twelve months that can be summarized as follows:

- A new TED architecture in Microsoft Azure has been built and is being tested;
- An enterprise licensing agreement has been signed with the ESRI corporation to purchase a range of licenses to support enterprise data collection and management
- The ATLAS capital project planning geodatabase was successfully separated from the TED data platform,
- New GIS tools and apps were developed to support inspection and repair functions for such safety centric assets as ADA curb ramps, signal control areas, and guiderail; UCONN GIS graduate students have started digitizing those same assets in ESRI applications.
- A digitized ENG 29 app has been developed for local governments along with a roadway data viewer capable of displaying the LRS in conjunction with safety asset data.
- Use cases are being documented to demonstrate the linkage between new enhanced MIRE related data sets and safety management planning

In addition, training in the use of ESRI software has begun, a work flow system for migrating TED legacy data sets has been developed; software user manuals and



business requirement documentation is being completed, a prototype TED Web Portal has been developed, data governance concepts around standardization and data quality has been initiated, and a TED advisory group continues to meet weekly to monitor developments and provide direction. In addition, regular briefings of DOT staff have taken place through monthly briefings of the "TED Development Team"- a larger network of asset data stewards, so called "Lunch and Learn" sessions open to the entire Department, and specialized briefings for senior management. To assure data sets remain timely and complete, discussions have been initiated internally and with vendors regarding the business requirements for an automated work order system that would integrate with asset management databases to improve and maintain state of good repair.

At the same time that the new TED enterprise system was being built, ConnDOT also took steps to consolidate its own GIS technical support capabilities by creating an organizational unit and point of contact with UCONN to facilitate the management and deployment of ESRI data systems and applications. This unit, known as the GIS Subject Matter Expert or SME team, is complemented by an emerging network of program manager Bureau leads and GIS technical support staff known as Bureau SMEs.

4.4.2.1 TRAFFIC RECORDS ASSESSMENT PLAN OF ACTION

Recommendation

• Improve the applicable guidelines for the Roadway data system that reflects best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

MIRE is the major guideline pertaining to the roadway system. There is a total of 202 elements that comprise MIRE Version 1.0 and 38 of those elements have been identified as FDEs. The MIRE elements are divided among three broad categories: roadway segments, roadway alignment, and roadway junctions. Each MIRE element has a definition, a list of attributes (coding) a priority rating, a reference to safety analysis tools, and—when necessary—an illustration that provides supplemental information on the element. It is important to have MIRE-level data for at least the roadway segments that have high crash rates so that causality can be investigated.



The collaborative plan between ConnDOT and CTSRC to populate critical MIRE data elements into the new geospatial LRS, and to maintain the datasets for safety analysis use, directly addresses the Traffic Records Assessment Recommendation. It is an ongoing effort, with plans to comply with federal requirements well before the 2026 deadline.

Recommendation

 Improve the data quality control program for the Roadway data system that reflects best practices identified in the Traffic Records Program Assessment Advisory

Plan of Action

Custodians of the roadway system should maintain a comprehensive, systematic quality control management process that ensures the efficient functioning of the system. The quality control process should include data quality measures as well. The timeliness, accuracy, completeness, uniformity, integration, and accessibility of the roadway data should be monitored based on a set of metrics established by the State. The overall quality of the roadway data should be assured based on a formal program of error and edit checking as the data are entered into the statewide system and procedures should be in place for addressing detected errors. In addition, the custodial agency and the TRCC should work together to establish and review the sufficiency of the quality control program and to review the results of the quality control measures.

Roadway data managers should produce and analyze periodic data quality reports. When these reports identify shortcomings, appropriate measures should be taken and corrections applied. If common errors are identified, training and changes to the applicable instruction manuals, edit checks, and the data dictionaries should be made. Audits and validation checks should be conducted as part of the quality control program to assure the accuracy of specific critical data elements. The measures shown below in Table 3 are examples of high-level management indicators of quality taken from NHTSA's performance measures report. The managers of individual roadway files should have access to a greater number of measures. The



custodial agency should be prepared to present a standard set of summary measures to the TRCC monthly or quarterly.

Table 3 – Example Quality Control Measurements for Roadway Data Systems

ROADWAY DATABASE MODEL PERFORMANCE MEASURES

		ROADWAY	DATABASE		
TIMELINESS	ACCURACY	COMPLETENESS	UNIFORMITY	INTEGRATION	ACCESSIBILITY
R-T-1: The median or mean number of days from (a) the date a periodic collection of a critical roadway data element is complete (e.g., Annual Average Daily Traffic) to (b) the date the updated critical roadway data element is entered into the database. R-T-2: The median or mean number of days from (a) the date a roadway project is completed to (b) the date the updated critical data elements are entered into the database.	R-A-1: The percentage of all road segment records with no errors in critical data elements. Example: Surface/Pavement	R-C-1: The percentage of road segment records with no missing critical data elements. R-C-2: The percentage of public road miles or jurisdictions identified on the State's basemap or roadway inventory file. R-C-3: The percentage of unknowns or blanks in critical data elements for which unknown is not an acceptable value. R-C-4: The percentage of total roadway segments that include location coordinates, using measurement frames such as a GIS basemap.	R-U-1: The number of Model Inventory of Roadway Elements (MIRE)-compliant data elements entered into a database or obtained via linkage to other databases.	R-I-1: The percentage of appropriate records in a specific file in the roadway database that are linked to another system or file. Example: Bridge inventory linked to roadway basemap	R-X-1: To measure accessibility of a specific file within the roadway database: Identify the principal users of the roadway file Query the principal users to assess (a) their ability to obtain the data or other services requested and (b) their satisfaction with the timeliness of the response to their request Document the method of data collection and the principal users' responses

ConnDOT and CTSRC have completed the process of identifying critical data elements and are in the process of collecting and integrating that data into the roadway inventory file, along with creating linkages to additional databases within the Department. Data quality reports related to roadway and safety data will become a capability of the new geospatial LRS once the initial appropriate data has been loaded. Date/time stamping of changes, integration with a composite project database, and creating publicly available access to datasets and data viewers are going to be capabilities once the new system is completely implemented and the old non-geospatial LRS is decommissioned.

CTDOT has established a sub-committee of its Transportation Enterprise Database (TED) Development group specifically dedicated to data visualization, analytics, and reporting; with members from Information Technology, Engineering, Planning, and UCONN CTSRC collaboratively assessing tools for visualizing and reporting data, as well as assessing data quality.

The Transportation Intelligence Gateway (TIG), a data extract and querying tool that functions as part of Bentley's EXOR product suite, allows administrators of the road network to generate various data quality reports as outlined below. TIG and the Bentley LRS spatial manager are products that are constantly evolving and ConnDOT plans to



assess establishing more robust performance measures once the capabilities of the new system are fully implemented. As such, the performance measures offered below are subject to change.

Timeliness – linkage to the CPD will enable ability to generate reports that track the completion of a project and link that information to the date the system was updated. Once data migration is completed, and appropriate database linkages have been established, ConnDOT will further assess the ability to establish data Timeliness related performance measures.

Accuracy – TIG has the ability to query and identify errors in critical data elements and attribution. Once data migration is completed, ConnDOT will further assess the ability to establish data Accuracy related performance measures.

Completeness – TIG has the ability to query and identify missing data elements and attribution. Once data migration is completed, ConnDOT will further assess the ability to establish data Completeness related performance measures.

Uniformity - ConnDOT is currently tracking the MIRE compliant and non-compliant FDE as they are migrated from RIS into the geospatial LRS (see Table 1 & Table 2 of the *Project Background* section). Once data migration is complete, and additional data collection and integration activities have been successfully completed, ConnDOT will further assess the ability to establish data Uniformity related performance measures.

Integration – Ongoing efforts to link critical and appropriate databases is still ongoing, as is a roadway database inventory. At the completion of roadway database inventory identification efforts, a metric that tracks the number of linked and integrated databases as a percentage of all available databases can be established. ConnDOT is involved in an effort to integrate all Bentley licensed products as well, and the progress of that integration is being tracked; these databases includes both safety and non-safety related data.

Accessibility – once the geospatial LRS and many of the associated critical data layers are in full production and can be used for safety analysis, surveys regarding the accessibility and satisfaction of the data can be developed.





Deficiency Analysis & Performance Goal Matrix

Performance Area: **Timeliness R-T-1**

Summary of Deficiency: - CT_RW_001 - Lack of update to roadway file

<u>Measurement:</u> The median number of days from (a) the date a periodic collection of critical roadway data elements is complete to (b) the data the updated critical roadway data element is entered into the database.

Time between field collection (which all adjustments will be time/date/user stamped) and when it is incorporated into the system (which is maintained by the LRS management system).

	Benchmark	2018	2019	2020	2021	2022
N/A	N/A	N/A	60	45	30	15
Actual	Unknown	Unknown	Unknown	Unknown		

Activity This Period

Deployment of MAVRIC as a production field data collection tool, and prioritized migration from the legacy system, which did not support this type of measure, were just completed for the year end 2019 roadway data. Integration across systems and data access improvements will allow CTDOT to begin measuring the performance measure in the 2020 year-end file.

Performance Area: Accuracy R-A-1

<u>Summary of Deficiency</u> - CT_RW_002 - Significant errors and incomplete road segment data elements.



<u>Measurement</u>: - Percent of road segment records with no errors in critical data elements.

	Benchmark	2018	2019	2020	2021	2022
Goal		98	99	99	100	100
Actual	95	98	99	99		

Activity This Period

Deployment of FME as a software solution will enable Roadway Inventory to automate this performance measure with monthly/weekly reports for QA/QC - crossing attribute validations will be built in.

All current errors in road segment records are attributed to knowledge that road segments exist, but lack of presence on the basemap. This includes all federal roads and some state-owned roads such as state institution, state forest, and state parks.

<u>Performance Area:</u> Completeness R-C-1

<u>Summary of Deficiency</u> – CT_RW_003 – Limited number of public roadway miles or jurisdictions identified on the State's Basemap or roadway inventory file.

<u>Measurement</u>: Percent of public roadway miles or jurisdictions identified on the State's base map or roadway inventory file.

	Benchmark	2018	2019	2020	2021	2022
Goal		98	99	99	100	100
Actual	95	98				

Activity This Period

Active correction and digitization of the remaining approximately 418 miles of public road is ongoing.



Require federal assistance in identified federal public roads - this hampers CTDOT's ability to have 100% converage.

<u>Performance Area:</u> Completeness R-C-2

<u>Summary of Deficiency</u> – CT_RW_004 – Number of roadway segments that include location coordinates using measurement frame such as GIS Basemap.

Measurement:

	Benchmark	2018	2019	2020	2021	2022
Goal						
Actual						

Activity This Period

Note:

All roadway segments digitized in GIS basemap contain location coordinates. Completion of all public roads will result in all road segments having location coordinates. Becuase the Basemap contains the ability to generate coordinates for all road segments and nodes, this second performance measure might be redundant as it will align exactly with R-C-1. Propose removing it.

Performance Area: Consistency (Uniformity) R-U-1

<u>Summary of Deficiency</u> – CT_RW_005 - Roadway data need to be Model Inventory Roadway Elements (MIRE) compliant

<u>Measurement</u>: Number of MIRE compliant data elements entered into a database or obtained via linkage to other databases

	Benchmark	2018	2019	2020	2021	2022
Goal		50	56	85	90	112
Actual	30	56	60	89		



Activity This Period

Intersection and approach collection and delivery will result in 29 additional data elements being integrated, hopefully by the end of 2020.

<u>Performance Area:</u> **Integration R-I-1**

Summary of Deficiency – CT_RW_006 – Limited linkage with the other Traffic Records System components (There is linkage between crash and roadway data through TED).

<u>Measurement</u>: % of appropriate records in a specific file in the roadway database that are linked to another system or file.

<u>Measurement:</u> Number of Traffic Records System component databases linked to the Roadway database.

	Benchmark	2018	2019	2020	2021	2022
Goal			3	4	5	6
Actual	2	2	3			

All appropriate records in the Roadway Database contain an LRS location, which is our common linkage element. Percent of records might not be an appropriate measure, but number of disparate systems that have that linkage may be a better measure, along with a list. The propose metric reflects the suggested revision that's highlighted.

Activity This Period

Roadway Data is linked to Traffic Data (Volume/Counts) through Exor Asset

Roadway Data is linked to Crash Data through TED/CRSMS

Roadway Data is linked to Bridge Data through Exor/InspectTech



<u>Performance Area:</u> Accessibility R-X-1

<u>Summary of Deficiency</u> – CT_RW_007 - % of Roadway data is electronically accessible to traffic records data users

Measurement: # of Traffic Records Users with access to roadway file

Measurement: # of Roadway data that is accessible

Roadway Data is being published online and through a database connection. A better measure of accessibility might be to note the percentage of critical elements that are published to this platform versus those that are only available internally. The performance measure has been updated to reflect this proposed metric

	Benchmark	2018	2019	2020	2021	2022
Goal			6%	20%	50%	75%
Actual	6%	6%	6%			

Activity This Period

CTDOT is in the process of building an Enterprise System for all roadway data to be more widely accessible and deployment of that system is anticipated in calendar year 2020. A small amount of additional roadway data was published to organizational members and partners during this year, but a much more widespread dissemination will come with the new Enterprise platform.



4.4.3 VEHICLE SYSTEM

The vehicle system is an inventory of data that enables the titling and registration of each vehicle under the State's jurisdiction to ensure that a descriptive record is maintained and made accessible for each vehicle and vehicle owner operating on public roadways.

Vehicle information includes identification and ownership data for vehicles registered in the State and out-of-State vehicles involved in crashes within the State's boundaries. Information on vehicle make, model, year of manufacture, body type (usually extracted from the VIN), and adverse vehicle history (title brands) is maintained to produce the data needed to support safety programs. Ideally, the vehicle system is capable of recording and reporting title data, registration information, and verification of required insurance and should clearly define both the vehicle itself and the owner or leaseholder.

Connecticut's vehicle registration and titling data is maintained in a separate system from its driver data. The strong points of this system include the use of software to validate the vehicle identification numbers, real-time processing, use of NMVTIS (National Motor Vehicle Title Information System) in real-time, and querying the NMVTIS system prior to issuing a Connecticut title. The vehicle system uses NMVTIS brand codes and the State participates in the PRISM (Performance and Registration Information Systems Management) system at the gold level. Additionally, the State has developed process flows for most of its vehicle-related processing. These are all best practices and deserve recognition.

The State's data dictionary for the system is a combination of the NMVTIS information, AAMVA D.20 data elements, and State-specific data elements. These aspects of the data dictionary should be combined into a Connecticut vehicle data dictionary that is limited to the State's data and definitions and contains its data edits and validation rules. It is commendable that the State uses NMVTIS and AAMVA documentation, as that provides for uniformity, but data users and collectors benefit more from a concise listing of the State's data elements and definitions.

There are some areas in which the State can improve its data, processes, and documentation to further improve an already good system. While the State has



developed an error-handling process, it is not contained in the process flows; an error-handling process flow would help to ensure that this information is reviewed and updated as needed. Stolen vehicle flags are not added to the registration system upon reporting by law enforcement, with State reliance on NMVTIS in lieu of flagging. However, State-level registration system flags would improve the timeliness of such reporting and could help to ensure that, upon recovery, such vehicles could be immediately cleared on the State system. In the same light, brand history from NMVTIS can be carried forward on to Connecticut titles, but such brands that are listed on out-of-state titles are not necessarily copied onto the Connecticut title. Changing this procedure would help to ensure that brands are not inadvertently washed from titles when moving from State to State.

One concern about uniformity within the State is the fact that personal information is not collected in the same format on the vehicle file as it is on the driver file. The discrepancies are due to the fact that the files are of varying ages and one has greater capacity than the other. It would behoove the State to review the current conventions for collecting and recording names and attempt to make those consistent.

Finally, a comprehensive data quality management program should be initiated for the vehicle data. The State has made efforts to improve its data quality and assumes that those practices and technology have made data quality better. However, the only way to ensure that data quality is and remains improved is to develop specific measures and to take and record those measurements on a regular basis. It is an often-faulty assumption that all errors are prevented by data edits. That is not the case and auditing for errors that might have bypassed the edits is a good way to develop additional edits if needed and to ascertain where training or procedures might need to be updated.

Random audits of the data, independent of customary State processes, help to find and fix problems. A small number of files, randomly selected and reviewed on a regular basis can help to determine what types of transactions are most likely to result in errors, to develop regular audit procedures for most-risky transaction types, and to provide feedback to data collectors and data entry staff to improve accuracy. Performance measures regularly monitored and reported to the TRCC will aid in maintaining the quality of the data and data system that Connecticut has developed.



4.4.3.1 TRAFFIC RECORDS ASSESSMENT PLAN OF ACTION

Recommendation

• Improve the data dictionary for the Vehicle data system that reflects best practices identified in the Traffic Records Program Assessment Advisory

Plan of Action

The vehicle system data dictionary is under review and once completed the DMV will ensure that it provides definitions for each data element and, where applicable, provides matching edit checks and data collection guidelines. Procedures for collection, reporting, and posting of registration, title, and title brand information will be formally documented. The data dictionary will be accessible to all users and updated regularly to reflect changes to the system.

The Vehicle system will adhere to the American Association of Motor Vehicle Administrators (AAMVA) standard and guidelines and reflects best practices identified in the Traffic Records Program Assessment Advisory.

• Improve the Interfaces with the Vehicle data system to reflects best practices identified in the Traffic Records Program Assessment Advisory

Plan of Action

The vehicle system is under review with plan improvements to include interface with other Traffic Records System.

• Improve the procedures/process flows for the Vehicle data system to reflects best practices identified in the Traffic Records Program Assessment Advisory

Plan of Action

Upon completion of the system review DMV will ensure the system procedures/process flow reflects best practices identified in the Traffic Records Program Assessment Advisory



Deficiency Analysis & Performance Goal Matrix

Performance Area: Timeliness V-T-1

<u>Summary of Deficiency</u> – CT_VH_001 - Improve timeliness of Vehicle Records updates entered into the database within 2 days after the critical status change

Measurement: % of title transactions posted within 24hr: 100%.

	Benchmark	2018	2019	2020	2021	2022
Goal	80%	80%	95%	98%	100%	100%
Actual	Unknown					

All motor vehicle title is posted at the time of vehicle registration

Activity This Period:

Performance Area: Accuracy V-A-1

<u>Summary of Deficiency</u> – CT_VH_002 – Improve the number of vehicle records with no errors in critical data elements e.g., Vehicle Identification Number (VIN)

Measurement: % of accurate or valid VIN.

	Benchmark	2018	2019	2020	2021	2022
Goal	90%	90%	98%	98%	100%	100%
Actual	Unknown					



Performance Area: Completeness V-C-1

<u>Summary of Deficiency</u> – CT_VH_003 – The vehicle file has a significant number of missing fields due to data entry errors.

Measurement: % of vehicle records with no missing data elements.

	Benchmark	2018	2019	2022	2021	2022
Goal	80%	80%	95%	95%	95%	95%
Actual	Unknown					

Activity This Period

Performance Area: Completeness V-C-1

Summary of Deficiency - CT_VH_004 - Large Truck and Buses vehicle have incomplete data elements.

<u>Measurement</u>: % of vehicle records from large trucks and buses that have all of the following data elements: Motor Carrier ID, Gross Vehicle Weight Rating/Gross Combination Weight Rating, Vehicle Configuration, Cargo Body Type, and Hazardous Materials (Cargo Only)

	Benchmark	2018	2019	2022	2021	2022
Goal	80%	80%	95%	95%	95%	95%
Actual	Unknown					



Performance Area: Consistency (Uniformity) V-U-1

<u>Summary of Deficiency</u> – CT_VH_005 – Increase number of standard/compliant data elements entered inti the vehicle database or obtained via linkage to other databases. These standards include AAMVER Standards and the MMUCC.

<u>Measurement</u>: Number of standards-compliant data elements entered or obtained via linkage to other databases. (AAMVER elements in the Vehicle File).

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	100%	100%	100%	100%	100%
Actual	Unknown					

Activity This Period:

<u>Performance Area:</u> <u>Integration</u> V-I-1

Summary of Deficiency – CT_VH_006 – No file linkage with the other Traffic Records System components.

<u>Measurement</u>: The percent of appropriate records in the vehicle file that are linked to another system or file.

	Benchmark	2018	2019	2020	2021	2022
Goal	80%	80%	95%	95%	95%	95%
Actual	Unknown					



Performance Area: Accessibility C-X-1

<u>Summary of Deficiency</u> – CT_VH_006 – Vehicle file is accessible to Law Enforcement and Department of Public Safety only.

Measurement: % of traffic records data user with access to vehicle file for data analysis.

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					



4.4.4 DRIVER SYSTEM

Connecticut's driver system has a number of excellent qualities. Purges of data in the system are made according to State Archival policies. The State keeps an audit log of changes to driver records, including the identity of the employee who made the change, and provides employees with the policy and procedure manual in an electronic format. Additionally, conviction data is relayed electronically from the courts in a nightly batch for upload and posting to the driver history file. The driver file also contains information about driver improvement training, and novice driver training is available in a paper-based file. The State uses a combination of its own data dictionary, the AAMVA D.20 data dictionary, and depends on its driver license vendor to keep the system documentation up-to-date.

To ensure compliance with the Driver Privacy Protection Act, the State has developed Memoranda of Understanding with its data users and audits them regularly.

Connecticut has good external fraud detection policies, procedures, and training. However, there is no enterprise-wide effort to detect internal fraud. Internal fraud can be detected through data audits to ensure that no single office is over-represented in any single type of transaction, and that no licensing transactions take place outside of normal business hours. Additionally, hard stops programmed into the system can prevent issuance of a license without required documentation, such as Commercial Driver's Licenses without appropriate medical or hazmat documentation. A gap analysis might aid the State in determining what measures to take to improve internal fraud detection and prevention.

4.4.4.1 TRAFFIC RECORDS ASSESSMENT PLAN OF ACTION

Recommendation

• Improve the applicable guidelines for the Driver data system to reflect best practices identified in the Traffic Records Program Assessment Advisory

Plan of Action



Connecticut adopted and deployed the REAL ID compliant Driver Licensing System. The new system ensures that each person licensed to drive in the CT has one identity, once license to drive, and one record. The system resides at the Department of Motor Vehicle and uses a Centralized Issuance process.

The Driver History file that maintains information on all State or unlicensed drivers convicted of traffic violations within the state. The system also supports (in concert with other data systems) both aggregate and detailed analysis of driver behaviors as they relate to safety.

In addition to the REAL ID compliant, the Driver system will ensure compliance with ANSI D-20 standards and maintained in a manner that accommodates interaction with the National Driver Register (NDR) Problem Driver Pointer System (PDPS) and FMCSA's Commercial Driver's License Information System (CDLIS). The system will reflect best practices as identified in the Traffic Records Program Assessment Advisory.

Recommendation

• Improve the data dictionary for the Driver data system that reflects best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The State Driver Licensing system is well documented. Each data field has an established definition and validated values—including appropriate null codes. All applicable edit checks and data collection guidelines matched the data definitions. The data dictionary will be maintained and updated to keep pace with system, legislative, and other changes.

Driver data system will reflect best practices as identified in the Traffic Records Program Assessment Advisory



Recommendation

• Improve the data quality control program for the Driver data system that reflects best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The system will have a formal data quality management program's review protocols that covers the entire process; the collection, submission, processing, posting, and maintenance of driver data.

An automated edit checks and validation rules will be implemented to ensure entered data falls within the range of acceptable values and is logically consistent between other fields. Edit checks will be applied when data is added to the record. The system will have a Performance measures program that will be tailored to the needs of data managers and address the concerns of all stakeholders.

The Driver system will reflect best practices identified in the Traffic Records Program Assessment Advisory

Deficiency Analysis & Performance Goal Matrix

Performance Area: **Timeliness D-T-1**

<u>Summary of Deficiency</u> – CT_DL_001 – There is a time lag in the processing of convictions file to the driver history file.

<u>Measurement</u>: Number of days from the date of driver's adverse action to the date the adverse action is entered into the database.

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					



Activity This Period

Performance Area: Accuracy D-A-1

<u>Summary of Deficiency</u> – CT_DL_002 – Improve the percentage of driver records that have no errors in critical data elements, e.g., Date of Birth.

Measurement: % of driver records that have no errors in critical data elements

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					

Activity This Period

Performance Area: Accuracy D-A-2

<u>Summary of Deficiency</u> – CT_DL_003 – Improve the percentage of driver records with validated Social Security Number (SSN)

<u>Measurement:</u> The percentage of records on the State driver file with Social Security Numbers (SSN) successfully verified using Social Security Online Verification (SSOLV) or other

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					



Performance Area: Completeness D-C-1

<u>Summary of Deficiency</u> – CT_DL_004 – Improve the percentage of driver records with no missing critical data elements

<u>Measurement</u>: Increase % of complete driver records with no missing critical elements previous driving records from other states or territories.

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					

Activity This Period.

Performance Area: Consistency (Uniformity) D-U-1

<u>Summary of Deficiency:</u> CT_DL_005 - Increase the number of standard-compliant data elements entered into the driver database or obtained vial linkage to other databases

<u>Measurement</u>: % of SSN, Immigration and Vital Statistics documents verified online prior to Driver License issuance.

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					

Activity This Period

Performance Area: Integration D-I-1

<u>Summary of Deficiency</u> – CT_DL_006 - No file linkage with the other Traffic Records System components.



<u>Measurement</u>: Increase percent of appropriate records in the driver file that are linked to another system or file

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					

Activity This Period

Performance Area: Accessibility D-X-1

Summary of Deficiency - CT_DL_007 - Driver file is only accessible to DPS and Law Enforcement Agency

<u>Measurement</u>: Increase the number of principal users access to appropriate driver records or file.

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					



4.4.5 CITATION AND ADJUDICATION

Prior to the implementation of Electronic Citation (E-Citation) Processing, Connecticut's traffic violation citation system was completely manual; vulnerable to human error at many points in the process. Handwritten documents required multiple entry in numerous and varied systems causing inconsistencies and inaccuracies in data. This sometimes led to agencies that relied on the system, such as the Department of Motor Vehicles (DMV), receiving erroneous information, which in some cases resulted in a failure to consistently and accurately apply conviction information to driver history files. In addition to creating opportunities for inaccurate and conflicting data to be entered into the system, reliance upon handwritten citations and multiple points of data entry often resulted in processing delays and time-consuming exceptions processing.

The paper driven manual process for adjudicating traffic violations is labor intensive. Recipients of traffic infractions respond either with payment or a not guilty plea. Some do not respond at all. A not guilty plea received at the CIB can either result in a nulled (decision by the state's attorney to not prosecute the infraction), or a transfer to the court of jurisdiction. Once at the court, the case may be reviewed and nulled or scheduled for an infraction hearing. Once scheduled, outcomes are varied and can include payment, substitution of charges, charitable contributions, nulls, and dismissals, etc.

In addition to creating opportunities for inaccurate and conflicting data to be entered into the system, reliance upon a system based on paper and multiple points of data entry often results in processing delays and time-consuming exceptions processing.

4.4.5.1 SYSTEM UPDATE

A statewide systematic effort was undertaken to address these problems, with the Judicial Branch E-Citation Processing System project developed in coordination with Citation projects involving the Capitol Region Council of Government (CRCOG) and the Department of Public Safety (DPS). This resulted in the development of a statewide electronic roadside data capture system for the issuing and reporting of traffic citations.



The Centralized Infractions Bureau (CIB) receives all infractions (approximately 400,000 annually) from every law enforcement agency in the State of Connecticut. In 2015, CIB received and processed over 148,000 "not guilty" pleas, each of which required the individual who received the infraction to appear in-person to participate in a court hearing. In 2018, the Connecticut Judicial Branch deployed an online adjudication system which enabled individuals who pled "not guilty" to an infraction to participate in the court process electronically, rather than be required to physically appear in court (not including trials). Currently available in nine of the fifteen locations in the State, and scheduled to be in twelve by the end of 2018, these online dockets have reduced costs, improved the quality and timeliness of hearings, and improved the convenience and efficiency of the process for both the court and the individual who receives the infraction. Approximately 70 percent of all individuals who are eligible to participate in the program have opted for this online system rather than an in-person court appearance.

Building on the E-Citation initiative, Judicial developed and implemented an on-line disposition system whereby the recipient of an infraction elects to have their case reviewed and adjudicated on-line. This allows prosecutors to review most, if not all not guilty pleas entered by defendants and reach resolution without the necessity of the recipient coming to court. If the defendant requests a trial, those cases would be heard in the court of jurisdiction.

In addition to removing the requirement for the defendant to appear in court, the online disposition system will allow prosecutors to review most, if not all, "not guilty" pleas entered by defendants and reach resolution at a more central location, without the necessity of physically appearing in court, helping to conserve the limited resources of the criminal justice system



4.4.5.2 TRAFFIC RECORDS ASSESSMENT PLAN OF ACTION

• Improve the data dictionary for the **Citation/Adjudication** systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The Judiciary System an old system and a detailed data dictionary is not currently readily available but efforts are underway to develop a detailed data dictionary that describes all the data elements and processes for the system.

TRCC will ensure that both data dictionary reflects best practices in the Traffic Records Program Assessment Advisory.

• Improve the procedures/ process flows for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The Judiciary and ECitation systems have a detailed data dictionary that describes all the procedures and process flow for each system.

TRCC will ensure that both systems reflect best practices in the Traffic Records Program Assessment Advisory.

• Improve the interfaces with the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The new Court system and the ECitation are currently undergoing interfacing efforts with Driver, Motor Vehicle and EMS systems.

TRCC will ensure that both systems interfaces reflect best practices in the Traffic Records Program Assessment Advisory.



Deficiency Analysis & Performance Goal Matrix

Performance Area: Timeliness C/A-T-1

Summary of Deficiency - CT_C/A_001 - There is a time lag in the processing of citations from issuance to when it is entered into the database.

ECitation data transfer to the court system shows a significant improvement in the timeliness.

<u>Measurement</u>: Mean number of days from citations issuance to when it is entered to the court system (centralized database).

	Benchmark	2018	2019	2020	2021	2022
Goal	1 day					
Actual			0.274798928	0.07034221		

Project: ECitation is completed, tested and deployed

Activity This Period:

<u>Performance Area:</u> Timeliness C/A-T-2

<u>Summary of Deficiency</u> – CT_C/A_002 – There is a significant time lag in the date of charge disposition to the date the charge disposition is entered into the statewide adjudication database and Driver History File

<u>Measurement</u>: The mean number of days from the date of charge disposition to the date the charge disposition is entered into the statewide adjudication database.

	Benchmark	2018	2019	2020	2021	2022
Goal						
Actual						



Project: Online Adjudication/Disposition System

Activity This Period:

Performance Area: Accuracy C/A-A-1

<u>Summary of Deficiency</u> – CT_C/A_003 – Illegible hand writing on Paper Citations results in data entry errors.

<u>Measurement</u>: % of Citation records with no missing critical data elements, e.g., time citation issued

	Benchmark	2018	2019	2020	2021	2022
Goal						
Actual						

Project:

Activity This Period:



Performance Area: Completeness C/A-C-1

<u>Summary of Deficiency:</u> CT_C/A_004 - Citation records with missing critical data elements

Measurement: % of citation records with no missing critical data elements

	Benchmark	2014	2015	2016	2017	2018
Goal						
Actual						

Project:

Activity This Period:

Performance Area: Consistency (Uniformity) C/A-U-1

<u>Summary of Deficiency</u> – CT_C/A_005 – Most Local Law Enforcement Agency are not participating in the use of the State Electronic Citation Program.

<u>Measurement:</u> % of Local Law Enforcement Agency using the State Electronic Citation System

	Benchmark	2018	2019	2020	2021	2022
Goal						
Actual						

Project:



Activity	This	Perio	d:

Performance Area: Integration C/A-I-1

<u>Summary of Deficiency</u> – CT_C/A_006 – Limited number of Citation records that are linked to other Traffic Records System components or file

<u>Measurement</u>: % of appropriate records in the citation file that are linked to another system or file.

	Benchmark	2018	2019	2020	2021	2022
Goal						
Actual						

Project:

Activity This Period:

Performance Area: Accessibility C/A-X-1

Summary of Deficiency - CT_C/A_007 - Limited access to the Citation File

<u>Measurement</u>: Number of principal users of citation data with access to the citation database.

	Benchmark	2018	2019	2020	2021	2022
Goal						
Actual						

Project:

Activity This Period:





4.4.6 EMERGENCY MEDICAL SERVICES

The Connecticut Injury Surveillance System (ISS) includes most of the basic components of an ideal system, including Emergency Medical Services (EMS), emergency department (ED) and hospital discharge (HD) databases, and a vital records (VR) system. The VR system is currently paper-based. Trauma registry (TR) data is collected by hospitals, but has not been submitted to the State registry since 2011. Efforts are underway to restore the State trauma registry functionality and begin receiving data from local hospitals. The State does not utilize data from rehabilitation facilities or other data sources as part of the system.

For the most part, the component systems do not track the frequency, nature, and severity of traffic-related injuries, and have not used system data to plan or evaluate highway safety projects. The EMS, ED, and HD systems have a data dictionary, but none of the component systems have formal documentation regarding the collection, management, and maintenance of data. Each system has a fairly complete flow diagram that covers the flow of data through the system.

None of the systems currently have a set of edit checks and/or validation rules for data entering the system, nor do they have documented procedures to track returned records through the correction and resubmission process. Most systems reportedly make aggregate data available to outside parties.

Limited state-level correction authority to correct obvious errors without returning reports to the submitting entity is granted for the EMS, ED, and HD systems. The VR system documents and reports to the submitting entity any changes that would affect the legal portion of death certificates.

Injury surveillance system (ISS) data from emergency medical services (EMS), hospital emergency departments, hospital discharge, trauma registries, insurance claims and mortality files can be used with roadway and motor vehicle crash data for prevention and cost control evaluation of motor vehicle crashes. Data collection systems documentation and integration of reporting mechanisms are needed in order to link data for analyses and outcome evaluation, for making public policy and for appropriately allocating resources that effect best practices in prevention and health care cost reduction.



The State Trauma Registry database collected hospital data from 2007 through 2011. In June of 2012, the data portal for hospitals was closed to the participating trauma centers. Trauma registry system updates and a report writer were created but have not been moved to production. No formal reports have been made to hospitals or other stakeholders, nor is aggregated trauma data currently accessible by either the trauma centers or the Office of EMS.

4.4.6.1 TRAFFIC RECORDS ASSESSMENT PLAN OF ACTION

• Improve the interfaces with the Injury Surveillance systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

DPH recently acquired a new system and one of the goals is to interface with the Injury Surveillance system. DPH is working on the deployment and will work toward interface to reflect best practices identified in the Traffic Records Program Assessment Advisory.

• Improve the data quality control program for the Injury Surveillance systems that reflects best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The new DPH system has a formal data quality management program as well as protocols that covers the entire process—the collection, submission, processing, posting, and maintenance of EMS data. DPH will ensure the system reflects best practices identified in the Traffic Records Program Assessment Advisory



Deficiency Analysis & Performance Goal matrix

Performance Area: Timeliness I-T-1

<u>Summary of Deficiency</u> - CT_EMS/I_001 - There are time delays, failure to submit data and failures in system processing of local EMS data. Identifying gaps in data by year, month and EMS agency is being used to identify causes and to effect solutions.

<u>Measurement Method:</u> Percent of EMS total records expected that are available in the yearly databases for analysis at 6 months (2019) and at 12 months (2017, 2018).

The estimated annual total for all types of EMS calls is \sim 750,000 if all EMS agencies report. At least 500,000 of the totals should be emergency 911 calls.

	Benchmark	2017	2018	2019	2020	2021
Goal	90%	90%	90%	90%	100%	
Actual	NA	64%	91%	90%+		

Activity This Period

Almost 92% of the expected total of all records for 2018 were received. As previously stated, an unknown volume of records from both 2017 and 2018 were erased from the state server and there is no way to tell if all of those were restored.

A draft annual report of the <u>2018</u> data was completed in March 2020 but appears to be still internal to DPH. The epidemiologist for OEMS also answered questions from the legislative auditor Laura Zhao in February 2020.

The EMS database is in the process of being shifted from Digital Innovations, Inc. To Image Trend Elite, which is used by at least 41 states, including all of New England and New York. Records from (mostly) 2020 have begun appearing in the new system. The process of migrating the legacy data from 2017 onward is still being worked out.

DPH OEMS and DPH Information Technology have been working for months on transition, updating contacts with the local EMS agencies and with all the software vendors for the local agencies. At least three months' work on redirecting their electronic submissions (and underlying configurations) to the new Image Trend Elite



data collector. We expect much better participation from local agencies because their submissions will be automated, via a web service. No more manual data submissions.

Performance Area: Timeliness I-T-2

<u>Summary of Deficiency</u> - CT_EMS/I_002 - The number of EMS agencies who are successfully submitting data is less than the number of EMS agencies that should be submitting data.

<u>Measurement Method</u>: Percent of EMS agencies identified in the 2019 agency roster who are submitting <u>any data for each month</u> in 2017, 2018 and 2019 as of June 30, 2019, even if volume fluctuated outside expected range. In 2019 we have 165 certified agencies and 20 licensed agencies, which can change slightly by year.

	Benchmark	2017	2018	2019	2020	2021
Goal	100%	100%	100%	100%	100%	100%
Actual	185	43 (23%)	129 (70%)	140 (76%)	NA	NA

Activity This Period

EMS agencies are now more likely to be send closed ePCRs directly to the database via a vendor web service. The collaboration of EMS agencies with their local software vendors is a challenge, as 80% of our EMS agencies are staffed on a volunteer basis.

Once the legacy data from 2017 to 2019 (and any catch-up 2020 records) have been migrated to the new database system, follow-up reports will be run via the system's Report Writer to verify the number of reporting EMS agencies and record totals for each year. It is quite likely that some agencies which had not submitted their data for times within that period may have unloaded everything they really had to the new system. There have been closures of local EMS, so that will change the denominator.

There are FEWER local EMS agencies in 2020. We now can see data imported into the new system from 168 out of a possible 170 agencies, (almost 99%).



Performance Area: Accuracy I-A-1

Summary of Deficiency: - CT_EMS/I_003- Errors in critical data elements

<u>Measurement:</u> % of EMS Patient Care Reports at NEMSIS with an overall data quality score of 90% or greater in seven categories, based on all NEMSIS version 3.4.0 data in V3 NEMSIS records for Connecticut. This includes years 2017, 2018 and 2019 and is limited to only the emergency 911 calls (not standby, transport, etc.)

	Benchmark	2018	2019	2020	2021	2022
Goal	90%	90%	90%	90%	95%	95%
Actual	Unknown	80%	80%			

Activity This Period

As of June 2020, we do not know the overall status of data submitted to NEMSIS, because NEMSIS was not getting all of our records. Part of the DPH effort has been to work with all EMS, vendors and Image Trend to remedy the lack of AGENCY demographic records. In order for data to go to NEMSIS, an agency (EMS agency) demographic record is coupled with the electronic patient care report record ("d" file + "e" file). We had more files here than NEMSIS was receiving because we could not get local EMS agencies to send their "d" files.

NEMSIS has many observations about quality criteria and most of our records trigger at least one violation. The suggestion by Image Trend is to work out a small second step Schematron of the ten most important criteria and attach them to "warning" level messages that allow data to be submitted, but raise a flag to the submitter, with a message. The next step is to let that sink in and send out information that the "warnings" are going to turn into "rejections".



As you can imagine, part of the difficulty is always to get this information read by the right people. An EMS chief may be the listed contact, but may not be the one who looks at emails, etc. Our contact lists are updated now, but that is always a moving target. However, when the records start bouncing back...It is not something that should happen all at once, but needs to be part of an iterative learning process.

Performance Area: Accuracy I-A-2

Summary of Deficiency: - CT_EMS/I_003- Quality scores for specific data areas

<u>Measurement:</u> Current quality measures of seven data areas from NEMSIS Tableau query of Connecticut data received as of July 2019. This includes years 2017, 2018 and 2019 and is limited to only the emergency 911 calls (not standby, transport, etc.)

Goal	Category of Measures	Score
90%	Overall	80%
	Patient Information	96%
	Cardiac Arrest	80%
	Valid System Times	85%
	Trauma center transports: Cause of Injury	69%
	Trauma center transports: Type of destination	83%
	Trauma center transports: Reason for choosing	82%
	destination	
	Trauma center transports: Hospital designation	24%
	Clinical times for patients treated by EMS	81%
	Other Incident Information	66%

Activity This Period

The preceding section addresses the issue. Once the data are migrated and then pushed to NEMSIS, we will have a better idea of what is going on.





<u>Performance Area:</u> Completeness I-C-1

<u>Summary of Deficiency</u>: - CT_EMS/I_004 Missing Critical Data Elements

Measurement: % of EMS Patient Care Reports with no missing critical data

elements

	Benchmark	2017	2018	2019 YTD
Goal	100%	100%	100%	100%
Actual		22%	45%	33%

Activity This Period

Please see preceding sections on transition to a new system, on importing and also migration of legacy data.

<u>Performance Area:</u> Consistency (Uniformity) I-U-1

<u>Summary of Deficiency</u> – CT_EMS_005 – Adopt the use of National Emergency Medical Services Information System Compliant (NEMSIS) data elements.

<u>Measurement</u>: Percent of records on the State EMS data file that are NEMSIS Compliant.

	Benchmark	2018	2019	2020	2021	2022
Goal	100%	80%	90%	95%	95%	95%
Actual	Unknown					

Activity This Period

Please see preceding sections on transition to a new system, on importing and also migration of legacy data.



<u>Performance Area:</u> Integration I-I-1

<u>Summary of Deficiency</u> – CT_EMS/I_006 – No data linkage to any other traffic records system.

<u>Measurement</u>: % of appropriate records in the EMS file that are linked to another system or file.

	Benchmark	2018	2019	2020	2021	2022
Goal						
Actual						

Activity This Period

OEMS has already exported the first NEMSIS v3.4.0 – based dataset of records with documentation of EMS naloxone administration to Yale University approved under research protocol #883.

There are other requests in the pipeline, but right now we cannot actually manipulate the data from 2017-2020. The older data reside in the department, but that is not accessible to me at this time.

Note that the Trauma Registry used to be a separate part of the old Digital Innovations, Inc. Data Collector. While EMS data is now with Image Trend Elite, Trauma Registry data was left with Digital Innovation, Inc. Digital Innovation Inc has been sold to another software company called ESO. I do not have access to their system or to the Trauma Registry data at this time.



Performance Area: Accessibility I-X-1

Summary of Deficiency - CT_EMS/I_007 - There is no access to the EMS file.

<u>Measurement:</u> Number of principal users with access to the EMS Run reports within HIPAA laws.

	Benchmark	2018	2019	2020	2021	2022
Goal						
Actual						

No Measurable Progress

We are beginning to export subsets of real data for the use of programming by one research partner in preparation for more complete analysis.



5.0 CONNECTICUT TRAFFIC RECORDS SYSTEM FY 2021 PROJECT PLAN

The Connecticut Traffic Records Coordinating Committee (CT-TRCC) reviewed each system's deficiencies and developed goals, objectives and projects to address the deficiencies as they relate to the goal of the traffic records system in the state.

The Connecticut Plan of Action addresses the traffic safety community needs for traffic safety information that is timely, accurate, complete, uniform, integrated, and accessible. The traffic safety community includes Department of Public Safety, State Police; Local Law Enforcement Agencies; Department of Transportation, Department of Public Health, Judiciary, Attorney General Office, Department of Motor Vehicles and Council of Regional Government.

TRAFFIC SAFETY INFORMATION SYSTEM IMPROVEMENT CT FY21



5.1 PROJECTS SUMMARY SECTION 405 (c) FUNDING

The table below provides a summary for each of the projects that **are being proposed for funding in FY 2021 under Section 405 (c) Grant**". A summary description of each project is provided in this section of application.

Project Title	Performance Area	Baseline	Goal 2020	Funding Requirement
Electronic Citation Processing System – Version 2	Timeliness	60%	100%	\$180,000.00
(Integration with Online Disposition)	Accuracy			
Electronic Citation Processing System – Version 2	Timeliness	80%	100%	\$200,000.00
(Online Disposition)	Completeness			
Electronic Citation	Timeliness	54%	100%	402-TR
	Accuracy			
Total FY 2020 Budget				\$380,000.00



5.2 ECITATION PROCESSING SYSTEM – VERSION 2 WITH ONLINE DISPOSITION

On-Going

Agency: Judiciary	Plan Year: 2021		Revision Date: 06/18/20
Submitted By: Stacey Manware		Email: Stacey	y.Manware@jud.ct.gov

Article I. Deficiencies:

The legislation requires that States list their system deficiencies and how those deficiencies were determined:

Deficiency ID: (For ease of reference, provide each deficiency with an identifier of up to 10 characters – no spaces)

C/A-T-1 - CT_C/A_001/C/A_002

C/A-I-1 - CT_C/A_006

C/A-A-1 - CT_C/A_003

Deficiency Description: (This section contains a brief statement of the deficiency.)

- Improve the procedures/process flows for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.
- Improve the interfaces with the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Core System: (What core system is referred to by this deficiency? Check One)

	Crash
	Driver License / History
	Injury Surveillance / EMS
	Roadway
X	Citation / Adjudication
	Vehicle Registration

TRAFFIC SAFETY INFORMATION SYSTEM IMPROVEMENT CT FY21



Performance Area: (What performance area is referred to by this deficiency? Check one)

- Accuracy
- **Integration Integration Integration**
- **■** Uniformity

Source if Deficiency: (How was the deficiency identified? i.e.: TR Assessment)

A Traffic Records Assessment dated April 18, 2017 and NTHSA Go Team evaluation.



Agency: Judiciary	Plan Year: 2021		Revision Date: 06/018/20
Submitted By: Stacey Manware		Email: Sta	acey.Manware@jud.ct.gov

Article II. Performance Measures & Goals:

Legislation and the Federal Register call for States to identify performance measures and goals as a basis for demonstrating progress. You may use the following template to record your Performance Measures and Goals.

Measure ID: (For ease of reference, provide each performance measure / goal statement with an identifier of up to 10 characters – no spaces)

Core System: (What core system will be affected by this measure? Check One)

□ Crash
□ Driver License / History
□ Injury Surveillance / EMS
□ Roadway
□ Citation / Adjudication
□ Vehicle Registration

Performance Area: (What performance area will be affected by this measure? Check one)

- ☑ Integration
- ☑ Uniformity



Direction: (What direction will the measure move to demonstrate a success? Check one)

☐ Increase☐ Decrease

What Will Be Measured: (This section contains a brief statement of what will be measured.)

- 1. Time required for issuing and transmitting citation to the state centralized database.
- 2. Completeness and accuracy of citation data.
- 3. Time required for disseminating citation reports to qualified requestors.
- 4. Time required for disposition and updating Driver History File.
- 5. Completeness and accuracy of Citation data
- 6. Integration of Citation/Adjudication and Disposition data with Driver History File.

How Will It Be Measured: (This section contains a brief statement of how the measurement will be determined?)

- 1. Timeliness Time periods from citation issuance to disposition and update of Driver History File. This can often be measured in days on the current Online Adjudication System.
- 2. Completeness and accuracy of Citation data.
- 3. Integration criminal data with traffic data for developing countermeasures
- 4. Interface to Driver and Vehicle Data



Goals by Year: (Provide annual values for the baseline and goal levels of the measure for each program year, in terms of its value in June of the given year.)

GOAL: Value as of:

Increase in Time Savings

June 2016	0%
June 2017	0%
June 2018	50%
June 2019	80%
June 2020	85%
June 2021	90%

Status by Year: (When the State provides FINAL VALUES for this performance measure as part of their annual progress report, they may choose to add the following information. Annual values for the baseline and goal levels of the measure for each program year, in terms of its value in June of the given year.)

FINAL (this year – prior year)

Value as of	%	Change	%
June 2016	0%	Change from 2015	0%
June 2017	00%	Change from 2016	0%
June 2018	50%	Change from 2017	50%
June 2019	80%	Change from 2018	30%
June 2020	85%	Change from 2019	5%
June 2021	90%	Change from 2020	5%



Arti cle III. Agency: JudiciaryPlan Year: 2021Revision Date: 06/018/20Submitted By: Stacey ManwareEmail: Stacey.Manware@jud.ct.gov

Projects:

The following project description format is SUGGESTED, but not required for use by the State. This sample includes information on all projects that impact directly upon system deficiencies and, therefore, system level performance measures, or which will involve USDOT funding (FHWA, FMCSA or NHTSA), in whole or in part. Exceptions and comments are noted in italics.

Project ID: (For ease of reference, provide each Project with an identifier of up to 10 characters – no spaces) C/A-T-1 - CT_C/A_001/C/A_002

Project Title: ECitation Processing System – Version 2 with Online Disposition

Lead Agency: Superior Court

Project Director / Primary Contact: (Person who is responsible for reporting Project Status.)

While not required, project director / contact information will assist the State Safety Data Coordinator in knowing who to contact for project progress information and will provide project-specific contact information for the NHTSA Safety Data Improvement Program Project Clearinghouse web site. Lacking a project-specific contact, the Clearinghouse will list the State Safety Data Coordinator as the Contact.

Name: Stacey Manware Title: Deputy Director

Agency: Superior

Court Address: 225 Spring Street

City, ZIP: Wethersfield, CT 06109



Phone: 860-263-2752

Email: <u>Stacey.Manware@jud.ct.gov</u>

Partner Agencies: (Name of the Agencies that are partners with the Lead Agency in the implementation of the project.)

Partner agencies may not be relevant to most projects, but if included, this helps document that more than one agency is responsible for the implementation and ultimate success of the project.

- Connecticut Police Chief's Association (CPCA)
- State and Local Law Enforcement Agencies
- Connecticut Department of Transportation
- Traffic Records Coordinating Committee (TRCC)

Core System & Performance Area:

What Core System(s) and Performance Area(s) will be affected by this project? *Check All that Apply*

Performance Area Core System	Accuracy	Completeness	Integration	Timeliness	Uniformity	Accessibility
Crash			X			
Driver License / History	X	X	X			
Injury Surveillance / EMS						
Roadway						
Citation / Adjudication	X	X	X	X	X	X
Vehicle Registration	X	X	X			

Project Description: (*This section provides a brief overview of what the project will entail.*)

In a continuing effort to implement ECitation statewide, during this grant year all local law enforcement agencies will either have implemented ECitation or a have a



plan to implement ECitation by the end of calendar year 2021. All plans will be agreed to by both Judicial and the law enforcement agency. In addition to increasing the number of agencies participating to 100%, building on the capability to submit attachments, ECitation will be expanded to allow direct submission of reports (both arrest and crash) and flag cases involving crashes for the prosecutor.

Basis for Project: (*Provide the deficiencies that will be addressed by this project.* If you like, you can list the Deficiency ID's that are being addressed.)

- Improve the procedures/process flows for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.
- Improve the interfaces with the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Expected Impact: (Indicate what impact you expect from this Project. This may be done by listing the Performance Measure ID's that are likely to be impacted by the Project.)

- C/A-T-1 CT_C/A_001/C/A_002
- C/A-I-1 CT_C/A_006
- C/A-A-1 CT_C/A_003

Project Priority: (This section provides describes the classification of Project Priority. States may use any prioritization that they choose such as short, medium and long range; low, medium high priority, or a specific rank order.)

High

Projected Budget by Funding Source:

Ideally, States should provide funding source and projected budgets by year for any projects that directly impact system performance goals or draw upon USDOT funding sources.



This will help establish future year funding estimates for the Section 405 (c) and other USDOT funded programs. (Show estimated thousands of dollars by Section 405 (c) grant year)

Funding Source	2018	2019	2020	2021
Section 405 (c)			\$174,840.00	\$180,000.00

Project Milestones: (This section lists the Milestones that will be used to show that the effort is on schedule.)

Milestones are not required, but by providing them a State can establish a means of demonstrating that the project is on schedule.

Milestones	Projected Completion Date	Actual Completion Date
Police Department Outreach	On-going	
Electronic Citation Deployment	On-going	
ECitation Enhancements	On-Going	

(NOTE: When providing information for your annual progress report the State may add another column that is the "Actual Completion Date" and fill in those values for milestones that have been completed.)

Project Status: (*This section provides a basic category for the status of the project as of the submission date.*)

	Unknown (Status not currently assigned)						
	Proposed (Project is proposed but has not been funded and / or approved)						
	Planned	(Project is approved, but has not yet started)					
	Start-Up	(Project is in organizational or administrative start-up - e.g. waiting					
	for staffing)						
X	Active (Project	et is under way)					
	Completed (Project has been completed)						
	Cancelled (P	roject was cancelled)					



On	Hold	(Proj	ject	is to	empor	arily	on I	hold)	
_		- /		-	-			-	



5.3 ELECTRONIC CITATION PROCESSING SYSTEM – ONLINE DISPOSITION

On Going

Agency: Judiciary	Plan Year: 2021		Revision Date: 06/018/20	
Submitted By: Stacey Manwar	e	Email: Stacey.Manware@jud.ct.gov		

Article I. Deficiencies:

The legislation requires that States list their system deficiencies and how those deficiencies were determined:

Deficiency ID: (For ease of reference, provide each deficiency with an identifier of up to 10 characters – no spaces)

C/A-T-1 - CT_C/A_001/C/A_002 C/A-I-1 - CT_C/A_006 C/A-A-1 - CT_C/A_003

Deficiency Description: (This section contains a brief statement of the deficiency.)

- Improve the procedures/process flows for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.
- Improve the interfaces with the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Core System: (What core system is referred to by this deficiency? Check One)
□ Crash
☐ Driver License / History
☐ Injury Surveillance / EMS
□ Roadway
TRAFFIC SAFETY INFORMATION SYSTEM IMPROVEMENT_CT_FY21



- ☐ Vehicle Registration

Performance Area: (What performance area is referred to by this deficiency? Check one)

- **⊠** Accuracy
- **Integration Integration Integration**
- **☒** Timeliness
- **☑** Uniformity

Source if Deficiency: (How was the deficiency identified? i.e.: TR Assessment, FMCSA Data Quality Audit, and TRCC Input)

Traffic Records Assessment dated April 18, 2017 and NTHSA Go Team evaluation.



Agency: Judiciary Plan Year: 2021		Revision Date: 06/018/		
Submitted By: Stacey Man	ware	Email: Stacey.Manware@jud.ct.gov		

Article II. Performance Measures & Goals:

Legislation and the Federal Register call for States to identify performance measures and goals as a basis for demonstrating progress. You may use the following template to record your Performance Measures and Goals.

Measure ID: (For ease of reference, provide each performance measure / goal statement with an identifier of up to 10 characters – no spaces)

C/A-T-1 - CT_C/A_001/C/A_002 C/A-I-1 - CT_C/A_006 C/A-A-1 - CT_C/A_003

Core System: (What core system will be affected by this measure? Check One)

	Crash
	Driver License / History
	Injury Surveillance / EMS
	Roadway
X	Citation / Adjudication
	Vehicle Registration

Performance Area: (What performance area will be affected by this measure? Check one)

TRAFFIC SAFETY INFORMATION SYSTEM IMPROVEMENT_CT_FY21



- ☑ Uniformity

Direction: (What direction will the measure move to demonstrate a success? Check one)

- ☑ Increase
- □ Decrease

What Will Be Measured: (This section contains a brief statement of what will be measured.)

- 1. Time required for disposition and updating Driver History File.
- 2. Completeness and accuracy of Citation data
- 3. Integration of Citation/Adjudication and Disposition data with Driver History File.

How Will It Be Measured: (This section contains a brief statement of how the measurement will be determined?)

- 1. Timeliness Time periods from citation issuance to disposition and update of Driver History File. This can often be measured in days on the current Online Adjudication System.
- 2. Completeness and accuracy of Citation data.
- 3. Integration criminal data with traffic data for developing countermeasures
- 4. Interface to Driver and Vehicle Data
- 5. Public Accessibility for adjudication process

Goals by Year: (Provide annual values for the baseline and goal levels of the measure for each program year, in terms of its value in June of the given year.)



GOAL: Value as of: Increase in Time Savings

June 2016	0%
June 2017	0%
June 2018	5%
June 2019	15%
June 2020	20%
June 2021	30%

Status by Year: (When the State provides FINAL VALUES for this performance measure as part of their annual progress report, they may choose to add the following information. Annual values for the baseline and goal levels of the measure for each program year, in terms of its value in June of the given year.)

FINAL (this year - prior year)

Value as of	%	Change	%
June 2016	0%	Change from 2015	0%
June 2017	0%	Change from 2016	5%
June 2018	50%	Change from 2017	50%
June 2019	60%	Change from 2018	10%
June 2020	60%	Change from 2019	0%
June 2021	80%	Change from 2020	20%



Agency: Judiciary Plan Year: 2020		Revision Date: 06/018/		
Submitted By: Stacey Man	nware	Email: Stacey.Manware@jud.ct.gov		

Article III. Projects:

The following project description format is SUGGESTED, but not required for use by the State. This sample includes information on all projects that impact directly upon system deficiencies and, therefore, system level performance measures, or which will involve USDOT funding (FHWA, FMCSA or NHTSA), in whole or in part. Exceptions and comments are noted in italics.

Project ID: (For ease of reference, provide each Project with an identifier of up to 10 characters – no spaces) C/A-T-1 - CT_C/A_001/C/A_002

Project Title: ECitation Processing System – Version 2 with Online Disposition

Lead Agency: Superior Court

Project Director / Primary Contact: (Person who is responsible for reporting Project Status.)

While not required, project director / contact information will assist the State Safety Data Coordinator in knowing who to contact for project progress information and will provide project-specific contact information for the NHTSA Safety Data Improvement Program Project Clearinghouse web site. Lacking a project-specific contact, the Clearinghouse will list the State Safety Data Coordinator as the Contact.

Name: Stacey Manware Title: Deputy Director



Agency: Superior Court Address: 225 Spring Street

City, ZIP: Wethersfield, CT 06109

Phone: 860-263-2752

Email: <u>Stacey.Manware@jud.ct.gov</u>

Partner agencies may not be relevant to most projects, but if included, this helps document that more than one agency is responsible for the implementation and ultimate success of the project.

- Connecticut Police Chief's Association (CPCA)
- State and Local Law Enforcement Agencies
- Connecticut Department of Transportation
- Traffic Records Coordinating Committee (TRCC)

Core System & Performance Area:

What Core System(s) and Performance Area(s) will be affected by this project? *Check All that Apply*

Performance Area Core System	Accuracy	Completeness	Integration	Timeliness	Uniformity	Accessibility
Crash			X			
Driver License / History	X	X	X			
Injury Surveillance / EMS						
Roadway						
Citation / Adjudication	X	X	X	X	X	X
Vehicle Registration	X	X	X			

Project Description: (This section provides a brief overview of what the project will entail.)



The online disposition program will continue to be modified with the goal of reducing the number of days from issuance to adjudication and the creation of uniform traffic records based on the most current, relevant information. During the upcoming grant period, Online Disposition will move from a platform where settlement is reached to a platform allowing alternative safety interventions, virtual trials and electronic communication with the police departments. Working with the Division of Criminal Justice the process will be further centralized to reduce the number of prosecutors involved in this case type, increasing opportunities for training, consistency and uniform messaging. All infraction dispositions will contain a traffic safety message developed in conjunction with the Connecticut Highway Safety Office. Methods of notification and contact with drivers will be increased by adding text messaging. The Judicial Branch will explore the possibility of conducting hearings and payments through self-guided kiosks in an effort to increase access to the current online system

Basis for Project: Provide the deficiencies that will be addressed by this project If you like, you can list the Deficiency ID's that are being addressed.)

A Traffic Records Assessment dated April 18, 2017 and NTHSA Go Team evaluation. Expected Impact: (Indicate what impact you expect from this Project. This may be done by listing the Performance Measure ID's that are likely to be impacted by the Project.)

Timely adjudication and disposition of traffic violations and update of Driver History File.

Project Priority: (This section provides describes the classification of Project Priority. States may use any prioritization that they choose such as short, medium and long range; low, medium high priority, or a specific rank order.)

High

Projected Budget by Funding Source:



Ideally, States should provide funding source and projected budgets by year for any projects that directly impact system performance goals or draw upon USDOT funding sources. This will help establish future year funding estimates for the Section 405 (c) and other USDOT funded programs. (Show estimated thousands of dollars by Section 405 (c) grant year.)

Funding Source	2018	2019	2020	2021
Section 405 (c)			\$187,000.00	\$200,000.00

Project Milestones: (This section lists the Milestones that will be used to show that the effort is on schedule.)

Milestones are not required, but by providing them a State can establish a means of demonstrating that the project is on schedule.

Milestones	Projected Completion Date	Actual Completion Date
System Analysis	On Going	
System Enhancements	On Going	



(NOTE: When providing information for your annual progress report the State may add another column that is the "Actual Completion Date" and fill in those values for milestones that have been completed.)

Project Status: (This section provides a basic category for the status of the project as of the submission date.)
 □ Unknown (Status not currently assigned)
 □ Proposed (Project is proposed but has not been funded and / or approved)
 □ Planned (Project is approved, but has not yet started)
 □ Start-Up (Project is in organizational or administrative start-up - e.g. waiting for staffing)
 ☑ Active (Project is under way)
 □ Completed (Project has been completed)
 □ Cancelled (Project was cancelled)
 □ On Hold (Project is temporarily on hold)

☐ Postponed (Project has been postponed, or tabled at this time)



5.4 ELECTRONIC CITATION – TECHNOLOGY/SOFTWARE SUPPORT FOR LOCAL LAW ENFORCEMENT

Agency: Judiciary	Plan Year: 2021		Revision Date: 06/018/20	
Submitted By: Stacey Manware		Email: Sta	acey.Manware@jud.ct.gov	

Article I. Deficiencies:

The legislation requires that States list their system deficiencies and how those deficiencies were determined:

Deficiency ID: (For ease of reference, provide each deficiency with an identifier of up to 10 characters – no spaces)

C/A-T-1 - CT_C/A_001/C/A_002 C/A-I-1 - CT_C/A_006 C/A-A-1 - CT_C/A_003

Deficiency Description: (This section contains a brief statement of the deficiency.)

- Improve the procedures/process flows for the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.
- Improve the interfaces with the Citation and Adjudication systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Core System: (W	/hat core system is re	eferred to by this	deficiency? Check One
\Box Crash			
☐ Driver Lie	cense / History		
☐ Injury Su	rveillance / EMS		



□ Roadway☑ Citation / Adjudication□ Vehicle Registration

Performance Area: (What performance area is referred to by this deficiency? Check one)

- □ Uniformity
- □ Accessibility

Source if Deficiency: (How was the deficiency identified? i.e.: TR Assessment, FMCSA Data Quality Audit, and TRCC Input)

Traffic Records Assessment dated April 18, 2017 and NTHSA Go Team evaluation.



STATE CONNECTICUT DEPARTMENT OF TRANSPORTATION TRAFFIC RECORDS STRATEGIC PLAN

Agency: Judiciary	Plan Year: 2021		Revision Date: 06/018/20
Submitted By: Stacey Manware		Email: Sta	acey.Manware@jud.ct.gov

Article II. Performance Measures & Goals:

Legislation and the Federal Register call for States to identify performance measures and goals as a basis for demonstrating progress. You may use the following template to record your Performance Measures and Goals.

Measure ID: (For ease of reference, provide each performance measure / goal statement with an identifier of up to 10 characters – no spaces)

C/A-T-1 - CT_C/A_001/C/A_002

C/A-I-1 - CT_C/A_006

C/A-A-1 - CT_C/A_003

Core System: (What core system will be affected by this measure? Check One)

- □ Crash
- ☑ Driver License / History
- ☐ Injury Surveillance / EMS
- □ Roadway
- ☑ Citation / Adjudication
- ☐ Vehicle Registration

Performance Area: (What performance area will be affected by this measure? Check one)

- **⊠** Accuracy
- ☑ Integration
- **☑** Uniformity

TRAFFIC SAFETY INFORMATION SYSTEM IMPROVEMENT_CT_FY21



Direction: Check o	`	direction	will	the	measure	move	to	demonstrate	a	success?
⊠ Incre	,									
☐ Decr	ease									

What Will Be Measured: (This section contains a brief statement of what will be measured.)

- 1. Time required for Citation issuance and transmission to the state centralized database
- 2. Completeness and accuracy of Citation data
- 3. Integration of Citation/Adjudication and Disposition data with Driver History File.

How Will It Be Measured: (This section contains a brief statement of how the measurement will be determined?)

- 1. Timeliness Time periods from citation issuance to when it is available for adjudication
- 2. Completeness and accuracy of Citation data.
- 3. Integration criminal data with traffic data for developing countermeasures
- 4. Interface to Driver and Vehicle Data

Goals by Year: (Provide annual values for the baseline and goal levels of the measure for each program year, in terms of its value in June of the given year.)

GOAL: Value as of:

Increase in Time Savings

June 2016	0%
June 2017	0%



June 2018	5%
June 2019	15%
June 2020	20%
June 2021	20%

Status by Year: (When the State provides FINAL VALUES for this performance measure as part of their annual progress report, they may choose to add the following information. Annual values for the baseline and goal levels of the measure for each program year, in terms of its value in June of the given year.)

FINAL (this year - prior year)

Value as of	%	Change	%
June 2016	0%	Change from 2015	0%
June 2017	0%	Change from 2016	0%
June 2018	40%	Change from 2017	40%
June 2019	54%	Change from 2018	14%
June 2020	70 %	Change from 2019	24%
June 2021	95%	Change from 2020	25%



Agency: Judiciary	Plan Year: 2021		Revision Date: 06/018/20
Submitted By: Stacey Manwar	e	Email: Sta	ncey.Manware@jud.ct.gov

Article III. Projects:

The following project description format is SUGGESTED, but not required for use by the State. This sample includes information on all projects that impact directly upon system deficiencies and, therefore, system level performance measures, or which will involve USDOT funding (FHWA, FMCSA or NHTSA), in whole or in part. Exceptions and comments are noted in italics.

Project ID: (For ease of reference, provide each Project with an identifier of up to 10 characters – no spaces) C/A-T-1 - CT_C/A_001/C/A_002

Project Title: Electronic Citation – Technology/Software Support for Local Law

Enforcement

Lead Agency: Superior Court

Project Director / Primary Contact: (Person who is responsible for reporting Project Status.)

While not required, project director / contact information will assist the State Safety Data Coordinator in knowing who to contact for project progress information and will provide project-specific contact information for the NHTSA Safety Data Improvement Program Project Clearinghouse web site. Lacking a project-specific contact, the Clearinghouse will list the State Safety Data Coordinator as the Contact.

Name: Stacey Manware Title: Deputy Director



Agency: Superior Court Address: 225 Spring Street

City, ZIP: Wethersfield, CT 06109

Phone: 860-263-2752

Email: <u>Stacey.Manware@jud.ct.gov</u>

Partner agencies may not be relevant to most projects, but if included, this helps document that more than one agency is responsible for the implementation and ultimate success of the project.

- Connecticut Police Chief's Association (CPCA)
- State and Local Law Enforcement Agencies
- Connecticut Department of Transportation
- Traffic Records Coordinating Committee (TRCC)

Core System & Performance Area:

What Core System(s) and Performance Area(s) will be affected by this project? *Check All that Apply*

Performance Area Core System	Accuracy	Completeness	Integration	Timeliness	Uniformity	Accessibility
Crash			X			
Driver License / History	\boxtimes	X	X			
Injury Surveillance / EMS						
Roadway						
Citation / Adjudication	×	X	X	X	X	X
Vehicle Registration	\boxtimes	X	X			

Project Description: (This section provides a brief overview of what the project will entail.)



The focus is to help local police departments acquire better tools/resources, including technology as well as software support, where warranted, to enable them to participate in the ECitation program. Some departments don't have computers or mobile data terminals (MDTs) in their vehicles, hindering their abilities for selective enforcement.

Equipment as well as software support will be provided to support local law enforcement agencies in implementing E-Citation. Equipment/software support will be specifically awarded to those agencies requesting assistance for the purchase and installation of computers, printers or other mobile technology, as well as software applications.

The need for planning and coordination among law enforcement agencies is critical to the success of this effort. This E-Citation support initiative will improve police officer efficiency by reducing the amount of time that officers spend collecting citation data and decrease the time it takes this data to be received by the appropriate State agency. This project could fund up to 10 municipalities. 57 municipal police agencies and the Connecticut State Police currently use ECitation.

Basis for Project: (Provide the deficiencies that will be addressed by this project if you like, you can list the Deficiency ID's that are being addressed.)

A Traffic Records Assessment dated April 18, 2017 and NTHSA Go Team evaluation. Expected Impact: (Indicate what impact you expect from this Project. This may be done by listing the Performance Measure ID's that are likely to be impacted by the Project.)

Timely adjudication and disposition of traffic violations and update of Driver History File.

Project Priority: (This section provides describes the classification of Project Priority. States may use any prioritization that they choose such as short, medium and long range; low, medium high priority, or a specific rank order.)

High



Projected Budget by Funding Source:

Ideally, States should provide funding source and projected budgets by year for any projects that directly impact system performance goals or draw upon USDOT funding sources. This will help establish future year funding estimates for the Section 405 (c) and other USDOT funded programs. (Show estimated thousands of dollars by Section 405 (c) grant year.)

Funding Source	2018	2019	2020	2021
Section 405 (c)			\$800,000.00	\$700,000.00

Project Milestones: (This section lists the Milestones that will be used to show that the effort is on schedule.)

Milestones are not required, but by providing them a State can establish a means of demonstrating that the project is on schedule.

Milestones	Projected	Actual Completion
	Completion Date	Date
Equipment	On Going	
Software acquisition and deployment	On Going	



STATE CONNECTICUT DEPARTMENT OF TRANSPORTATION TRAFFIC RECORDS STRATEGIC PLAN

(NOTE: When providing information for your annual progress report the State may add another column that is the "Actual Completion Date" and fill in those values for milestones that have been completed.)

Project Status: (This section provides a basic category for the status of the project as of the submission date.)

	Unknown (Status not currently assigned)
	Proposed (Project is proposed but has not been funded and / or approved)
	Planned (Project is approved, but has not yet started)
	Start-Up (Project is in organizational or administrative start-up - e.g. waiting
	for staffing)
X	Active (Project is under way)
	Completed (Project has been completed)
	Cancelled (Project was cancelled)
	On Hold (Project is temporarily on hold)
	Postponed (Project has been postponed, or tabled at this time)



6.0 Traffic Records Recommendation not addressed in FY 2021

Vehicle Recommendations _ under the department review

• Improve the data dictionary for the Vehicle data system that reflects best practices identified in the Traffic Records Program Assessment Advisory

Plan of Action

The vehicle system data dictionary is under review and once completed the DMV will ensure that it provides definitions for each data element and, where applicable, provides matching edit checks and data collection guidelines. Procedures for collection, reporting, and posting of registration, title, and title brand information will be formally documented. The data dictionary will be accessible to all users and updated regularly to reflect changes to the system.

The Vehicle system will adhere to the American Association of Motor Vehicle Administrators (AAMVA) standard and guidelines and reflects best practices identified in the Traffic Records Program Assessment Advisory.

• Improve the Interfaces with the Vehicle data system to reflects best practices identified in the Traffic Records Program Assessment Advisory

Plan of Action

The vehicle system is under review with plan improvements to include interface with other Traffic Records System.

• Improve the procedures/process flows for the Vehicle data system to reflects best practices identified in the Traffic Records Program Assessment Advisory

Plan of Action



Upon completion of the system review DMV will ensure the system procedures/process flow reflects best practices identified in the Traffic Records Program Assessment Advisory

Driver Recommendations _ under the department review

• Improve the data dictionary for the Driver data system that reflects best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The Driver Licensing system will be well documented. Each data field will have an established definition and validated values—including appropriate null codes. All applicable edit checks and data collection guidelines will match the data definitions. The data dictionary will be maintained and updated to keep pace with system, legislative, and other changes.

Driver data system will reflect best practices as identified in the Traffic Records Program Assessment Advisory

• Improve the data quality control program for the Driver data system that reflects best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The system will have a formal data quality management program's review protocols that covers the entire process—the collection, submission, processing, posting, and maintenance of driver data.

An automated edit checks and validation rules will be implemented to ensure entered data falls within the range of acceptable values and is logically consistent between other fields. Edit checks will be applied when data is added to the record. The system will have a Performance measures program that will be tailored to the needs of data managers and address the concerns of all stakeholders.



The Driver system will reflect best practices identified in the Traffic Records Program Assessment Advisory

EMS/Injury Surveillance Recommendations _ In process

• Improve the interfaces with the Injury Surveillance systems that reflect best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

DPH recently acquired a new system and one of the goals is to interface with the Injury Surveillance system. DPH is working on the deployment and will work toward interface to reflect best practices identified in the Traffic Records Program Assessment Advisory.

• Improve the data quality control program for the Injury Surveillance systems that reflects best practices identified in the Traffic Records Program Assessment Advisory.

Plan of Action

The new DPH system has a formal data quality management program as well as protocols that covers the entire process—the collection, submission, processing, posting, and maintenance of EMS data. DPH will ensure the system reflects best practices identified in the Traffic Records Program Assessment Advisory

TRAFFIC RECORDS SYSTEM STRATEGIC PLAN_CT_FY21

ⁱ Extracted from CAS2 Database - ConnDOT